



QUALCOMM Incorporated

5775 Morehouse Drive
San Diego, CA 92121-1714

www.qualcomm.com

Via Email and Mail

December 10, 2014

Mr. Thomas Goode
ATIS General Counsel
ATIS
1200 G. Street, NW
Suite 500
Washington, DC 20005
Email: patents@atis.org

RE: Patent Holder Statement on behalf of QUALCOMM Incorporated for
M.1457; M.2012; Q.1741

Dear Mr. Goode:

Please find attached Qualcomm Incorporated's Patent Holder Statement for M.1457; M.2012; Q.1741.

Please confirm receipt of this Statement at your earliest convenience via email to my attention at ip.disclosure@qualcomm.com. If you have any questions or concerns, please contact me directly at 858-587-1121. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'TRR', followed by a long horizontal line extending to the right.

Thomas R. Rouse
VP, QTL Patent Counsel
Qualcomm Incorporated

TR/gg

ALLIANCE FOR TELECOMMUNICATIONS INDUSTRY SOLUTIONS

PATENT HOLDER STATEMENT

Please return via mail, email (scanned with signature), or fax to:

General Counsel

ATIS

1200 G Street, N.W., Suite 500

Washington, D.C. 20005 USA

Fax: +1 (888) 874-0973

Email: patents@atis.org

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No discussion or negotiation of license terms is permitted in any Forum or Committee. For further information regarding the licensing of any patented inventions identified in this Statement, please contact the person identified in Section B.

A. PARTY SUBMITTING THE STATEMENT

Legal Name (e.g. XYZ Corp.):

QUALCOMM Incorporated

B. CONTACT FOR LICENSING INFORMATION

Contact Name:	Thomas R. Rouse	Title:	VP, QTL Patent Counsel
Department:	QTL		
Telephone:	858-587-1121	Fax:	858-651-0933
Email:	ip.disclosure@qualcomm.com		

C. ATIS-DEVELOPED AMERICAN NATIONAL STANDARD OR OTHER ATIS DELIVERABLE

Please complete a separate Patent Holder Statement for each standard/deliverable.

ATIS Forum/Committee:	
ATIS Document Number:	See attached list
Title:	M.1457; M.2012; Q.1741
Other tracking identifiers*, if appropriate:	

*Note: If the standard/deliverable information is not available, please provide available tracking identifiers (e.g., Committee and Issue number, working text number, contribution number).

D. LICENSING ASSURANCE

In accordance with Section 10.4 of the ATIS Operating Procedures, the Party submitting this Statement hereby declares the following (*check box 1, 2a, 2b or 2c and either box 3a or 3b*):

- ☐ 1. The Party submitting this Statement does not hold or does not currently intend holding any invention the use of which would be required for compliance with the ATIS-developed American National Standard or other ATIS deliverable identified in Section C.
2. The Party submitting this Statement may hold a patent covering an invention the use of which may be required for compliance with the ATIS-developed American National Standard or other ATIS deliverable identified in Section C, and with respect to claim(s) of such patent(s), as may be specified more particularly in Section E, that are required for compliance with that ATIS-developed American National Standard or other ATIS deliverable (*check only one box*):
- ☐ a. An irrevocable license will be made available under reasonable terms and conditions that are demonstrably free of any unfair discrimination, without compensation, to applicants desiring to utilize the license for the purpose of implementing the American National Standard or other ATIS deliverable;
- Mark here ☐ if the Party submitting this Statement reserves the right to obtain compensation from applicants who are only willing to license, for compensation, their claim(s) of patents covering an invention, the use of which is required for compliance with the ATIS-developed American National Standard or other ATIS deliverable identified in Section C, on reasonable terms and conditions that are demonstrably free of any unfair discrimination.
- or
- ☒ b. An irrevocable license will be made available under reasonable terms and conditions that are demonstrably free of any unfair discrimination, with compensation, to applicants desiring to utilize the license for the purpose of implementing the American National Standard or other ATIS deliverable;
- Mark here ☒ if such licensing assurance is subject to applicant reciprocity.
- or
- ☐ c. Is unwilling or unable to grant licenses according to the provisions of either 2a or 2b.

3. If the Party submitting this Statement has checked box 2a or 2b, please indicate whether (*check a or b below*):

- ☐ a. The license assurance is provided for any claim(s) of any patent(s) owned or controlled by the Party submitting this Statement, and which such Party has a right to license, covering an invention the use of which is required for compliance with the American National Standard or other ATIS deliverable identified in Section C, including the claim(s) of the patent(s) identified in Section E, if any; or
- ☒ b. The license assurance is provided only for the claim(s) of the patent(s) identified in Section E covering an invention the use of which is required for compliance with the American National Standard or other ATIS deliverable identified in Section C.


E. IDENTIFICATION OF PATENTS

(Completion of the following information is optional if D3a is selected. If D3b is selected, please provide the information indicated below for each patent or application. Attach additional sheets as necessary.)

Patent No. or Application No. (if pending)	Country	Status (Granted/ Pending)	Title	Relevance*
See attached list				

* Note: A Party may, at its discretion, provide further information or explanation in respect of the invention's relevance to the American National Standard or other ATIS Deliverable identified in Section C.

F. SIGNATURE

Name of Authorized Person (type or print legibly):	Thomas R. Rouse
Signature of Authorized Person:	
Title:	VP, QTL Patent Counsel
Date:	December 10, 2014

For more information regarding ATIS' patent policy, please see Section 10.4 of the ATIS Operating Procedures (Version 5.1), which is available online at www.atis.org/op.pdf.

Please return via mail, email (scanned with signature), or fax to:

General Counsel

ATIS

1200 G Street, N.W., Suite 500

Washington, D.C. 20005 USA

Fax: +1 (888) 874-0973

Email: patents@atis.org

Number	ATIS Spec
1	ATIS.3GPP.22.146V1110-2014
2	ATIS.3GPP.22.220V1160-2014
3	ATIS.3GPP.23.060V1150-2014
4	ATIS.3GPP.23.122V1140-2014
5	ATIS.3GPP.23.203V1190-2014
6	ATIS.3GPP.23.216V1180-2014
7	ATIS.3GPP.23.221V1110-2014
8	ATIS.3GPP.23.261V1100-2014
9	ATIS.3GPP.23.272V1140-2014
10	ATIS.3GPP.23.401V1150-2014
11	ATIS.3GPP.23.402V1160-2014
12	ATIS.3GPP.23.682V1130-2014
13	ATIS.3GPP.24.008V1160-2014
14	ATIS.3GPP.24.030V1100-2014
15	ATIS.3GPP.24.080V1100-2014
16	ATIS.3GPP.24.285V1100-2014
17	ATIS.3GPP.24.301V1160-2014
18	ATIS.3GPP.24.312V1160-2014
19	ATIS.3GPP.24.337V1140-2014
20	ATIS.3GPP.24.930V1100-2014
21	ATIS.3GPP.26.090V1100-2014
22	ATIS.3GPP.26.190V1100-2014
23	ATIS.3GPP.26.234V1110-2014
24	ATIS.3GPP.26.244V1110-2014
25	ATIS.3GPP.26.247V1120-2014
26	ATIS.3GPP.26.267V1100-2014
27	ATIS.3GPP.26.268V1100-2014
28	ATIS.3GPP.26.290V1100-2014
29	ATIS.3GPP.26.346V1140-2014
30	ATIS.3GPP.29.002V1160-2014
31	ATIS.3GPP.29.212V1180-2014
32	ATIS.3GPP.29.272V1160-2014
33	ATIS.3GPP.29.273V1150-2014
34	ATIS.3GPP.31.102V1140-2014
35	ATIS.3GPP.32.500V1110-2014
36	ATIS.3GPP.33.102V1150-2014
37	ATIS.3GPP.33.220V1140-2014
38	ATIS.3GPP.33.246V1110-2014
39	ATIS.3GPP.33.401V1160-2014
40	ATIS.3GPP.36.101V10100-2013
41	ATIS.3GPP.36.104V10100-2013
42	ATIS.3GPP.36.133V10100-2013
43	ATIS.3GPP.36.171V1010-2011
44	ATIS.3GPP.36.211V1070-2013
45	ATIS.3GPP.36.212V1070-2013
46	ATIS.3GPP.36.213V1070-2013
47	ATIS.3GPP.36.214V1010-2011
48	ATIS.3GPP.36.216V1031-2013
49	ATIS.3GPP.36.300V1090-2013
50	ATIS.3GPP.36.302V1050-2013
51	ATIS.3GPP.36.304V1060-2013
52	ATIS.3GPP.36.305V1050-2013
53	ATIS.3GPP.36.306V1090-2013
54	ATIS.3GPP.36.321V1080-2013

55	ATIS.3GPP.36.322V1000-2011
56	ATIS.3GPP.36.323V1020-2013
57	ATIS.3GPP.36.331V1090-2013
58	ATIS.3GPP.36.355V1080-2013
59	ATIS.3GPP.36.401V1040-2013
60	ATIS.3GPP.36.412V1010-2011
61	ATIS.3GPP.36.413V1060-2013
62	ATIS.3GPP.36.420V1020-2013
63	ATIS.3GPP.36.422V1010-2011
64	ATIS.3GPP.36.423V1050-2013
65	ATIS.3GPP.36.440V1030-2013
66	ATIS.3GPP.36.455V1040-2013
67	ATIS.3GPP.36.509V1000-2013
68	ATIS.3GPP.37.320V1040-2013
69	T1.3GPP.25.211V3120-2003
70	T1.3GPP.25.212V3110-2003
71	T1.3GPP.25.213V390-2004
72	T1.3GPP.25.214V3120-2004

Patent No. or Application No. (if pending)	Country	Status	Title	Specification
7,289,473	United States	Granted	Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
PI0015248-0	Brazil	Pending	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
11/858,840	United States	Pending	Pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
12/874,156	United States	Pending	Pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
ZL00818043.1	China P.R.	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
1226665	Germany	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
EP1835638	Germany	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
EP1226665	European Patent Convention	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
EP1835638	European Patent Convention	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
1226665	Spain	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
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1226665	France	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
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1226665	Great Britain	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
EP1835638	Great Britain	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
HK1052593	Hong Kong	Granted	Method and apparatus for transmitting pilot reference from a plurality of transmission sources	ATIS.3GPP.36.133V10100-2013
HK1114473	Hong Kong	Granted	Synchronised pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
1226665	Italy	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
EP1835638	Italy	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013

4607407	Japan	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
726743	Republic of Korea	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
EP1835638	Netherlands	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.133V10100-2013
1226665	Sweden	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.133V10100-2013
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EP1835638	France	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.211V1070-2013
1226665	Great Britain	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013

EP1835638	Great Britain	Granted	Synchronized pilot reference transmission for a wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1052593	Hong Kong	Granted	Method and apparatus for transmitting pilot reference from a plurality of transmission sources	ATIS.3GPP.36.211V1070-2013
HK1114473	Hong Kong	Granted	Synchronised pilot reference transmission for a wireless communication system	ATIS.3GPP.36.211V1070-2013
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HK1114473	Hong Kong	Granted	Synchronised pilot reference transmission for a wireless communication system	T1.3GPP.25.211V3120-2003
1226665	Italy	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1835638	Italy	Granted	Synchronized pilot reference transmission for a wireless communication system	T1.3GPP.25.211V3120-2003
4607407	Japan	Granted	Synchronized pilot reference transmission for a wireless communication system	T1.3GPP.25.211V3120-2003
726743	Republic of Korea	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1835638	Netherlands	Granted	Synchronized pilot reference transmission for a wireless communication system	T1.3GPP.25.211V3120-2003
1226665	Sweden	Granted	Synchronized Pilot Reference Transmission for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1835638	Sweden	Granted	Synchronized pilot reference transmission for a wireless communication system	T1.3GPP.25.211V3120-2003
6,775,802	United States	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Austria	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
780507	Australia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Belgium	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
PI0107073-8	Brazil	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
2385191	Canada	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Switzerland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
ZL01802339.8	China P.R.	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP2209017	Germany	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Denmark	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013

EP1307762	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
09008283.5	European Patent Convention	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
EP2209017	European Patent Convention	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
11100648.3	Hong Kong	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
12004869.9	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
12004870.7	European Patent Convention	Pending	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Spain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Finland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	France	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP2209017	Great Britain	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Greece	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
HK1051722	Hong Kong	Granted	Method, apparatus, and system for signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Hungary	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
ID0017765	Indonesia	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Ireland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
248455	India	Granted	A method and apparatus for predicting data	ATIS.3GPP.36.355V1080-2013
EP1307762	Italy	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
5404983	Japan	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
2012-008879	Japan	Pending	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
5628221	Japan	Granted	Method, apparatus and system of improving GPS signal-to-noise ratio using a bit prediction algorithm	ATIS.3GPP.36.355V1080-2013
849625	Republic of Korea	Granted	Method, apparatus and system for signal prediction	ATIS.3GPP.36.355V1080-2013
235662	Mexico	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Netherlands	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Norway	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Poland	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Portugal	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Romania	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
EP1307762	Sweden	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
87574	Singapore	Granted	Method, apparatus and system for GPS signal prediction	ATIS.3GPP.36.355V1080-2013
5393	Vietnam	Granted	Method, Apparatus and System for Signal Prediction	ATIS.3GPP.36.355V1080-2013
7,155,222	United States	Granted	Method for Performing RR-Level Registration in a Wireless Communication System	ATIS.3GPP.23.060V1150-2014
EP1247416	Belgium	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
PI0107492-0	Brazil	Pending	Method for Performing Radio Resource Level Registration in a Wireless Communication System	ATIS.3GPP.23.060V1150-2014
7,773,987	United States	Granted	Method for Performing RR-Level Registration in a Wireless Communication System	ATIS.3GPP.23.060V1150-2014

8,010,104	United States	Granted	Method for performing RR-level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
ZL01806314.4	China P.R.	Granted	Method for Performing Radio Resource Level Registration in a Wireless Communication System	ATIS.3GPP.23.060V1150-2014
EP1247416	Germany	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP2194746	Germany	Granted	Method for performing a timer based re-registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	Denmark	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	European Patent Convention	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP2194746	European Patent Convention	Granted	Method for performing a timer based re-registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	Spain	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	Finland	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	France	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	Great Britain	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP2194746	Great Britain	Granted	Method for performing a timer based re-registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
1053215	Hong Kong	Granted	Method for Performing Radio Resource Level Registration in a Wireless Communication System	ATIS.3GPP.23.060V1150-2014
EP1247416	Ireland	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	Italy	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
4607411	Japan	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
812101	Republic of Korea	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
812567	Republic of Korea	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
EP1247416	Netherlands	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
NI-176514	Taiwan	Granted	Method for Performing RR-Level Registration in a Wireless Communication System	ATIS.3GPP.23.060V1150-2014

EP1247416	Sweden	Granted	Method for performing radio resource level registration in a wireless communication system	ATIS.3GPP.23.060V1150-2014
6,535,739	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spretral capabilities	ATIS.3GPP.36.211V1070-2013
2001253238	Australia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Belgium	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
PI0109873-0	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
BR1220140269048	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
6,853,843	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
7,151,933	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
7,373,149	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
2405494	Canada	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
ZL01810838.5	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
ZL200810086604.7	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Germany	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	European Patent Convention	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Spain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Finland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	France	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Great Britain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
HK1055198	Hong Kong	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
ID0016047	Indonesia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013

EP1273198	Ireland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
152118	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
194037	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
205917	India	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Italy	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
4795608	Japan	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
799080	Republic of Korea	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
226419	Mexico	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Netherlands	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
328642	Norway	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
2267864	Russian Federation	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
EP1273198	Sweden	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.211V1070-2013
92347	Singapore	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
I224934	Taiwan	Granted	A method of handoff within a telecommunications system containing digital base stations with different spretral capabilities	ATIS.3GPP.36.211V1070-2013
71670	Ukraine	Granted	Handoff Method for Wireless Telecommunications System Including Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.211V1070-2013
6,535,739	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spretral capabilities	ATIS.3GPP.36.213V1070-2013
2001253238	Australia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Belgium	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
PI0109873-0	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
BR1220140269048	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.213V1070-2013

6,853,843	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
7,151,933	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
7,373,149	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
2405494	Canada	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
ZL01810838.5	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
ZL200810086604.7	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Germany	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	European Patent Convention	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Spain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Finland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	France	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Great Britain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
HK1055198	Hong Kong	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
ID0016047	Indonesia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Ireland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
152118	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
194037	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
205917	India	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Italy	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
4795608	Japan	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013

799080	Republic of Korea	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
226419	Mexico	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Netherlands	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
328642	Norway	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
2267864	Russian Federation	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
EP1273198	Sweden	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.213V1070-2013
92347	Singapore	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
I224934	Taiwan	Granted	A method of handoff within a telecommunications system containing digital base stations with different sprectral capabilities	ATIS.3GPP.36.213V1070-2013
71670	Ukraine	Granted	Handoff Method for Wireless Telecommunications System Including Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.213V1070-2013
6,535,739	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different sprectral capabilities	ATIS.3GPP.36.321V1080-2013
2001253238	Australia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Belgium	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
PI0109873-0	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
BR1220140269048	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
6,853,843	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
7,151,933	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
7,373,149	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
2405494	Canada	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
ZL01810838.5	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
ZL200810086604.7	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013

EP1273198	Germany	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	European Patent Convention	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Spain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Finland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	France	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Great Britain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
HK1055198	Hong Kong	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
ID0016047	Indonesia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Ireland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
152118	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
194037	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
205917	India	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Italy	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
4795608	Japan	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
799080	Republic of Korea	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
226419	Mexico	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Netherlands	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013
328642	Norway	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
2267864	Russian Federation	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
EP1273198	Sweden	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.321V1080-2013

92347	Singapore	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
I224934	Taiwan	Granted	A method of handoff within a telecommunications system containing digital base stations with different spretral capabilities	ATIS.3GPP.36.321V1080-2013
71670	Ukraine	Granted	Handoff Method for Wireless Telecommunications System Including Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.321V1080-2013
6,535,739	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spretral capabilities	ATIS.3GPP.36.322V1000-2011
2001253238	Australia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Belgium	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
PI0109873-0	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
BR1220140269048	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
6,853,843	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
7,151,933	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
7,373,149	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
2405494	Canada	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
ZL01810838.5	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
ZL200810086604.7	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Germany	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	European Patent Convention	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Spain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Finland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	France	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Great Britain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011

HK1055198	Hong Kong	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
ID0016047	Indonesia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Ireland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
152118	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
194037	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
205917	India	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Italy	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
4795608	Japan	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
799080	Republic of Korea	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
226419	Mexico	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Netherlands	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
328642	Norway	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
2267864	Russian Federation	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
EP1273198	Sweden	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.322V1000-2011
92347	Singapore	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
I224934	Taiwan	Granted	A method of handoff within a telecommunications system containing digital base stations with different sprectral capabilities	ATIS.3GPP.36.322V1000-2011
71670	Ukraine	Granted	Handoff Method for Wireless Telecommunications System Including Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.322V1000-2011
6,535,739	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different sprectral capabilities	ATIS.3GPP.36.323V1020-2013
2001253238	Australia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Belgium	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013

PI0109873-0	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
BR1220140269048	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with ifferent Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
6,853,843	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
7,151,933	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
7,373,149	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
2405494	Canada	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
ZL01810838.5	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
ZL200810086604.7	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Germany	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	European Patent Convention	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Spain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Finland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	France	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Great Britain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
HK1055198	Hong Kong	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
ID0016047	Indonesia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Ireland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
152118	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
194037	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
205917	India	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013

EP1273198	Italy	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
4795608	Japan	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
799080	Republic of Korea	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
226419	Mexico	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Netherlands	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
328642	Norway	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
2267864	Russian Federation	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
EP1273198	Sweden	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.323V1020-2013
92347	Singapore	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
I224934	Taiwan	Granted	A method of handoff within a telecommunications system containing digital base stations with different spretral capabilities	ATIS.3GPP.36.323V1020-2013
71670	Ukraine	Granted	Handoff Method for Wireless Telecommunications System Including Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.323V1020-2013
6,535,739	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spretral capabilities	ATIS.3GPP.36.331V1090-2013
2001253238	Australia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Belgium	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
PI0109873-0	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with iffereent Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
BR1220140269048	Brazil	Pending	Method of Handoff Within a Telecommunications System Containing Digital Base Stations with iffereent Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
6,853,843	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
7,151,933	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
7,373,149	United States	Granted	Method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
2405494	Canada	Granted	A method of handoff within a telecommunications system containing digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013

ZL01810838.5	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
ZL200810086604.7	China P.R.	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Germany	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	European Patent Convention	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Spain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Finland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	France	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Great Britain	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
HK1055198	Hong Kong	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
ID0016047	Indonesia	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Ireland	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
152118	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
194037	Israel	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
205917	India	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Italy	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
4795608	Japan	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
799080	Republic of Korea	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
226419	Mexico	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Netherlands	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
328642	Norway	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013

2267864	Russian Federation	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
EP1273198	Sweden	Granted	Handoff method for digital base stations with different spectral capabilities	ATIS.3GPP.36.331V1090-2013
92347	Singapore	Granted	Handoff Method for Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
I224934	Taiwan	Granted	A method of handoff within a telecommunications system containing digital base stations with different sprectral capabilities	ATIS.3GPP.36.331V1090-2013
71670	Ukraine	Granted	Handoff Method for Wireless Telecommunications System Including Digital Base Stations with Different Spectral Capabilities	ATIS.3GPP.36.331V1090-2013
6,473,467	United States	Granted	Method and Apparatus for Measuring and Reporting Channel State Information in a High Efficiency, High Performance Communications System	ATIS.3GPP.36.211V1070-2013
EP1628419	Austria	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
2001245921	Australia	Granted	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.211V1070-2013
2006201688	Australia	Granted	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.211V1070-2013
2007237267	Australia	Granted	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.211V1070-2013
EP1628419	Belgium	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
PI0109693-1	Brazil	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
PI0117224-7	Brazil	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
2402152	Canada	Granted	Method and apparatus for transmitting pilot symbols on a plurality of subbands from a plurality of antennas	ATIS.3GPP.36.211V1070-2013
2690245	Canada	Pending	Method and Apparatus for Measuring and Reporting Channel State Information in a High Efficiency, High Performance Communications System	ATIS.3GPP.36.211V1070-2013
EP1628419	Switzerland	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Germany	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Denmark	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
01918901.8	European Patent Convention	Pending	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	European Patent Convention	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
06014173.6	European Patent Convention	Pending	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
10169330.7	European Patent Convention	Pending	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.211V1070-2013

14168905.9	European Patent Convention	Pending	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.211V1070-2013
EP1628419	Spain	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Finland	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	France	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Great Britain	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Greece	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
07109323.2	Hong Kong	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
ID0021531	Indonesia	Granted	Method and apparatus for measuring reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.211V1070-2013
IDP0030891	Indonesia	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
EP1628419	Ireland	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
IL151397	Israel	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
169251	Israel	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
195020	Israel	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
218506	India	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
237706	India	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
EP1628419	Italy	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
5122714	Japan	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
4851124	Japan	Granted	Transmission method in multiplex-antenna communications system, base station, and the multiplex-antenna communications system	ATIS.3GPP.36.211V1070-2013
5123438	Japan	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
697533	Republic of Korea	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
230888	Mexico	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
275776	Mexico	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Netherlands	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
334254	Norway	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
20111708	Norway	Pending	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Portugal	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
2002129011	Russian Federation	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
2387082	Russian Federation	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
EP1628419	Sweden	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.211V1070-2013
91443	Singapore	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.211V1070-2013
NI-165041	Taiwan	Granted	Method and Apparatus for Measuring and Reporting Channel State Information in a High Efficiency, High Performance Communications System	ATIS.3GPP.36.211V1070-2013

72583	Ukraine	Granted	Method and Apparatus for Measuring and Reporting Transmission Characteristics, Method and System for Measuring and Reporting Channel State Information in a Multiple Input/Multiple Output Communication System	ATIS.3GPP.36.211V1070-2013
6,473,467	United States	Granted	Method and Apparatus for Measuring and Reporting Channel State Information in a High Efficiency, High Performance Communications System	ATIS.3GPP.36.213V1070-2013
EP1628419	Austria	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
2001245921	Australia	Granted	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.213V1070-2013
2006201688	Australia	Granted	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.213V1070-2013
2007237267	Australia	Granted	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.213V1070-2013
EP1628419	Belgium	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
PI0109693-1	Brazil	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
PI0117224-7	Brazil	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
2402152	Canada	Granted	Method and apparatus for transmitting pilot symbols on a plurality of subbands from a plurality of antennas	ATIS.3GPP.36.213V1070-2013
2690245	Canada	Pending	Method and Apparatus for Measuring and Reporting Channel State Information in a High Efficiency, High Performance Communications System	ATIS.3GPP.36.213V1070-2013
EP1628419	Switzerland	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	Germany	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	Denmark	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
01918901.8	European Patent Convention	Pending	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	European Patent Convention	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
06014173.6	European Patent Convention	Pending	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
10169330.7	European Patent Convention	Pending	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.213V1070-2013
14168905.9	European Patent Convention	Pending	Method and apparatus for measuring and reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.213V1070-2013
EP1628419	Spain	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	Finland	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	France	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	Great Britain	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013

EP1628419	Greece	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
07109323.2	Hong Kong	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
ID0021531	Indonesia	Granted	Method and apparatus for measuring reporting channel state information in a high efficiency, high performance communications system	ATIS.3GPP.36.213V1070-2013
IDP0030891	Indonesia	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
EP1628419	Ireland	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
IL151397	Israel	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
169251	Israel	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
195020	Israel	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
218506	India	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
237706	India	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
EP1628419	Italy	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
5122714	Japan	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
4851124	Japan	Granted	Transmission method in multiplex-antenna communications system, base station, and the multiplex-antenna communications system	ATIS.3GPP.36.213V1070-2013
5123438	Japan	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
697533	Republic of Korea	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
230888	Mexico	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
275776	Mexico	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	Netherlands	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
334254	Norway	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
20111708	Norway	Pending	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	Portugal	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
2002129011	Russian Federation	Pending	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
2387082	Russian Federation	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
EP1628419	Sweden	Granted	Method and apparatus for measuring channel state information	ATIS.3GPP.36.213V1070-2013
91443	Singapore	Granted	Method and Apparatus for Measuring Channel State Information	ATIS.3GPP.36.213V1070-2013
NI-165041	Taiwan	Granted	Method and Apparatus for Measuring and Reporting Channel State Information in a High Efficiency, High Performance Communications System	ATIS.3GPP.36.213V1070-2013
72583	Ukraine	Granted	Method and Apparatus for Measuring and Reporting Transmission Characteristics, Method and System for Measuring and Reporting Channel State Information in a Multiple Input/Multiple Output Communication System	ATIS.3GPP.36.213V1070-2013
6,985,510	United States	Granted	Method and System for Data and Voice Transmission Over Shared and Dedicated Channels	ATIS.3GPP.36.211V1070-2013
11/328,791	United States	Pending	Method and system for data and voice transmission over shared and dedicated channels	ATIS.3GPP.36.211V1070-2013

6,952,454	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
PI0112403-0	Brazil	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
7,751,492	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
7,813,441	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
7,664,193	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
8,194,776	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
14/296,081	United States	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
ZL01814271.0	China P.R.	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
01952682.1	European Patent Convention	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
10009631.2	European Patent Convention	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
03109155.9	Hong Kong	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
4880177	Japan	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
861878	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
909203	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
883942	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
1038406	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
NI-184079	Taiwan	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.211V1070-2013
6,952,454	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
PI0112403-0	Brazil	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
7,751,492	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013

7,813,441	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
7,664,193	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
8,194,776	United States	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
14/296,081	United States	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
ZL01814271.0	China P.R.	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
01952682.1	European Patent Convention	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
10009631.2	European Patent Convention	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
03109155.9	Hong Kong	Pending	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
4880177	Japan	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
861878	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
909203	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
883942	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
1038406	Republic of Korea	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
NI-184079	Taiwan	Granted	Multiplexing of real time services and non-real time services for OFDM systems	ATIS.3GPP.36.213V1070-2013
6,694,469	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
2001253506	Australia	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Belgium	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
PI0110002-5	Brazil	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
7,127,654	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
7,613,978	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013

2406216	Canada	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
ZL01809657.3	China P.R.	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Germany	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	European Patent Convention	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
09154558.2	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
10177328.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
14185447.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Spain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Finland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	France	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Great Britain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
1055039	Hong Kong	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
W-00200202348	Indonesia	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Ireland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
152215	Israel	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
203783	Israel	Pending	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
204470	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
204473	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
208621	India	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Italy	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013

2001-576606	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
5583639	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
2011-284076	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
2013-215702	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
2014-130453	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
762768	Republic of Korea	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
234667	Mexico	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
254435	Mexico	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Netherlands	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
20024910	Norway	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
2295833	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
2462824	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
EP1273123	Sweden	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
92238	Singapore	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
NI-165373	Taiwan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.213V1070-2013
UA74181	Ukraine	Granted	Apparatus for Retransmission of Signals in Communication System (Variants)	ATIS.3GPP.36.213V1070-2013
6,694,469	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2001253506	Australia	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Belgium	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
PI0110002-5	Brazil	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013

7,127,654	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
7,613,978	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2406216	Canada	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
ZL01809657.3	China P.R.	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Germany	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	European Patent Convention	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
09154558.2	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
10177328.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
14185447.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Spain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Finland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	France	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Great Britain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
1055039	Hong Kong	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
W-00200202348	Indonesia	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Ireland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
152215	Israel	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
203783	Israel	Pending	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
204470	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
204473	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013

208621	India	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Italy	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2001-576606	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
5583639	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2011-284076	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2013-215702	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2014-130453	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
762768	Republic of Korea	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
234667	Mexico	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
254435	Mexico	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Netherlands	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
20024910	Norway	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2295833	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
2462824	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
EP1273123	Sweden	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
92238	Singapore	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
NI-165373	Taiwan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.321V1080-2013
UA74181	Ukraine	Granted	Apparatus for Retransmission of Signals in Communication System (Variants)	ATIS.3GPP.36.321V1080-2013
6,694,469	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2001253506	Australia	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011

EP1273123	Belgium	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
PI0110002-5	Brazil	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
7,127,654	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
7,613,978	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2406216	Canada	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
ZL01809657.3	China P.R.	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Germany	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	European Patent Convention	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
09154558.2	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
10177328.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
14185447.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Spain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Finland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	France	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Great Britain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
1055039	Hong Kong	Granted	An apparatus for retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
W-00200202348	Indonesia	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Ireland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
152215	Israel	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
203783	Israel	Pending	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011

204470	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
204473	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
208621	India	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Italy	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2001-576606	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
5583639	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2011-284076	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2013-215702	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2014-130453	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
762768	Republic of Korea	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
234667	Mexico	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
254435	Mexico	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Netherlands	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
20024910	Norway	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2295833	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
2462824	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
EP1273123	Sweden	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
92238	Singapore	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
NI-165373	Taiwan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	ATIS.3GPP.36.322V1000-2011
UA74181	Ukraine	Granted	Apparatus for Retransmission of Signals in Communication System (Variants)	ATIS.3GPP.36.322V1000-2011

6,694,469	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2001253506	Australia	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Belgium	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
PI0110002-5	Brazil	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
7,127,654	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
7,613,978	United States	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2406216	Canada	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
ZL01809657.3	China P.R.	Granted	An apparatus for retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Germany	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	European Patent Convention	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
09154558.2	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
10177328.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
14185447.1	European Patent Convention	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Spain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Finland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	France	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Great Britain	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
1055039	Hong Kong	Granted	An apparatus for retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
W-00200202348	Indonesia	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Ireland	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003

152215	Israel	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
203783	Israel	Pending	Method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
204470	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
204473	Israel	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
208621	India	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Italy	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2001-576606	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
5583639	Japan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2011-284076	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2013-215702	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2014-130453	Japan	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
762768	Republic of Korea	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
234667	Mexico	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
254435	Mexico	Granted	Method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Netherlands	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
20024910	Norway	Pending	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2295833	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
2462824	Russian Federation	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
EP1273123	Sweden	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
92238	Singapore	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003

NI-165373	Taiwan	Granted	A method and an apparatus for a quick retransmission of signals in a communication system	T1.3GPP.25.211V3120-2003
UA74181	Ukraine	Granted	Apparatus for Retransmission of Signals in Communication System (Variants)	T1.3GPP.25.211V3120-2003
7,088,701	United States	Granted	Method and apparatus for adaptive transmission control in a high data rate communications system	ATIS.3GPP.36.211V1070-2013
PI0110003-3	Brazil	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
ZL01810928.4	China P.R.	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	Germany	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	European Patent Convention	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
07014756.6	European Patent Convention	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	Spain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	Finland	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	France	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	Great Britain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
1057952	Hong Kong	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	Italy	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
5073908	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
5607089	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
825239	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
866815	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	Netherlands	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
EP1273121	Sweden	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013

NI-168807	Taiwan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.211V1070-2013
7,088,701	United States	Granted	Method and apparatus for adaptive transmission control in a high data rate communications system	ATIS.3GPP.36.213V1070-2013
PI0110003-3	Brazil	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
ZL01810928.4	China P.R.	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	Germany	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	European Patent Convention	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
07014756.6	European Patent Convention	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	Spain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	Finland	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	France	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	Great Britain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
1057952	Hong Kong	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	Italy	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
5073908	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
5607089	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
825239	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
866815	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	Netherlands	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
EP1273121	Sweden	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013
NI-168807	Taiwan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.213V1070-2013

7,088,701	United States	Granted	Method and apparatus for adaptive transmission control in a high data rate communications system	ATIS.3GPP.36.321V1080-2013
PI0110003-3	Brazil	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
ZL01810928.4	China P.R.	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	Germany	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	European Patent Convention	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
07014756.6	European Patent Convention	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	Spain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	Finland	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	France	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	Great Britain	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
1057952	Hong Kong	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	Italy	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
5073908	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
5607089	Japan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
825239	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
866815	Republic of Korea	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	Netherlands	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
EP1273121	Sweden	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
NI-168807	Taiwan	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	ATIS.3GPP.36.321V1080-2013
7,088,701	United States	Granted	Method and apparatus for adaptive transmission control in a high data rate communications system	T1.3GPP.25.214V3120-2004

PI0110003-3	Brazil	Pending	Method and apparatus for adaptive transmission control in a high data rate communication system	T1.3GPP.25.214V3120-2004
ZL01810928.4	China P.R.	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	T1.3GPP.25.214V3120-2004
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EP1273121	European Patent Convention	Granted	Method and apparatus for adaptive transmission control in a high data rate communication system	T1.3GPP.25.214V3120-2004
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7,245,594	United States	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1770924	Austria	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
EP2249521	Austria	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013

EP2256997	Austria	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP2256998	Austria	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP1755293	Belgium	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP2249521	Switzerland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP2256998	Switzerland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
ZL01812060.1	China P.R.	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaptation in a High Rate Packet Data Transmission	ATIS.3GPP.36.212V1070-2013
ZL200610144585.X	China P.R.	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP1755293	Germany	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1770924	Germany	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
EP2249521	Germany	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013

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EP2256998	Germany	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP1755293	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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HK1150407	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
09165436.8	European Patent Convention	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
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HK1151401	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
10103128.7	Hong Kong	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
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HK1151647	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1287649	Spain	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP2256998	Spain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1287649	Finland	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013

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EP1770924	Finland	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
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EP1287649	France	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1755293	France	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1770924	France	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
EP2249521	France	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP2256997	France	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP2256998	France	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1287649	Great Britain	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1755293	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1770924	Great Britain	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
EP2249521	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP2256997	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP2256998	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1770924	Greece	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
EP2249521	Greece	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP2256997	Greece	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
EP2256998	Greece	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
HK1076951	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
HK1105724	Hong Kong	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
HK1104400	Hong Kong	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
IDP0028103	Indonesia	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013

W-00201003605	Indonesia	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
EP1287649	Ireland	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP1770924	Ireland	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.212V1070-2013
EP2249521	Ireland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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152712	Israel	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
180344	Israel	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
205411	Israel	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
212226	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
244168	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP2256998	Italy	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
4689931	Japan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
4814053	Japan	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
4778106	Japan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
10-0861279	Republic of Korea	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
10-0925126	Republic of Korea	Granted	Method and apparatus for fast closed-Loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
229497	Mexico	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaption in High Rate Packet Data Transmission	ATIS.3GPP.36.212V1070-2013
EP1287649	Netherlands	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013

EP1755293	Netherlands	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
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327847	Norway	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
20070269	Norway	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
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92966	Singapore	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaptation in a High Rate Packet Data Transmission	ATIS.3GPP.36.212V1070-2013
I232660	Taiwan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.212V1070-2013
79923	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.212V1070-2013
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EP1770924	Germany	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.213V1070-2013
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09165436.8	European Patent Convention	Pending	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.213V1070-2013
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244168	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
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10-0925126	Republic of Korea	Granted	Method and apparatus for fast closed-Loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
229497	Mexico	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaption in High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
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I232660	Taiwan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
79923	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.213V1070-2013
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EP1770924	Switzerland	Granted	Method and apparatus for wireless communication	ATIS.3GPP.36.321V1080-2013
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205411	Israel	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.321V1080-2013
212226	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.321V1080-2013
244168	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.321V1080-2013
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4778106	Japan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.321V1080-2013
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10-0925126	Republic of Korea	Granted	Method and apparatus for fast closed-Loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.321V1080-2013
229497	Mexico	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaption in High Rate Packet Data Transmission	ATIS.3GPP.36.321V1080-2013
EP1287649	Netherlands	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.321V1080-2013

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EP2256998	Sweden	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.321V1080-2013
92966	Singapore	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaptation in a High Rate Packet Data Transmission	ATIS.3GPP.36.321V1080-2013
I232660	Taiwan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	ATIS.3GPP.36.321V1080-2013
79923	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.321V1080-2013
91684	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	ATIS.3GPP.36.321V1080-2013
7,245,594	United States	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1770924	Austria	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
EP2249521	Austria	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004

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2001263081	Australia	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1287649	Belgium	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
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EP2256998	Belgium	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
PI0110730-5	Brazil	Pending	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
P0117252-2	Brazil	Pending	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
8,498,308	United States	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
13/953,070	United States	Pending	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
2408619	Canada	Granted	Method and apparatus for fast closed-loop rate adaption in high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1770924	Switzerland	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
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EP2256997	Switzerland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP2256998	Switzerland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
ZL01812060.1	China P.R.	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaptation in a High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
ZL200610144585.X	China P.R.	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1287649	Germany	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
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EP2256998	Germany	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1770924	Denmark	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
EP2249521	Denmark	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
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EP2256998	Denmark	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1287649	European Patent Convention	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
EP1755293	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1770924	European Patent Convention	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
EP2249521	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
HK1150407	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
09165436.8	European Patent Convention	Pending	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
EP2256997	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
HK1151401	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
10103128.7	Hong Kong	Pending	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
EP2256998	European Patent Convention	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
HK1151647	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
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EP1770924	Spain	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
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EP2256998	Spain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
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EP1770924	Finland	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
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EP2256998	Finland	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1287649	France	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
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EP1770924	France	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
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EP2256998	France	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1287649	Great Britain	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
EP1755293	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaption in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1770924	Great Britain	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
EP2249521	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP2256997	Great Britain	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
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EP1770924	Greece	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
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HK1076951	Hong Kong	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
HK1105724	Hong Kong	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
HK1104400	Hong Kong	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
IDP0028103	Indonesia	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004

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EP1770924	Ireland	Granted	Method and apparatus for wireless communication	T1.3GPP.25.214V3120-2004
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212226	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
244168	India	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
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EP1287649	Netherlands	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004

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EP2256998	Sweden	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
92966	Singapore	Granted	Method and Apparatus for Fast Closed-Loop Rate Adaptation in a High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
I232660	Taiwan	Granted	Method and apparatus for fast closed-loop rate adaptation in a high rate packet data transmission	T1.3GPP.25.214V3120-2004
79923	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
91684	Ukraine	Granted	Method and apparatus for rate adaption in packet data transmission	T1.3GPP.25.214V3120-2004
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2007200070	Australia	Pending	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013

2009251132	Australia	Pending	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
PI0115216-5	Brazil	Pending	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
2428965	Canada	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
ZL01821791.5	China P.R.	Granted	Method and apparatus for time division multiplexed transmission	ATIS.3GPP.36.212V1070-2013
ZL200910224573.1	China P.R.	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
8,363,576	United States	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
EP1332569	Germany	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
EP1332569	European Patent Convention	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
10010064.3	European Patent Convention	Pending	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
EP1332569	Spain	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
EP1332569	France	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
EP1332569	Great Britain	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
HK1061759	Hong Kong	Granted	Method and apparatus for time division multiplexed transmission	ATIS.3GPP.36.212V1070-2013
ID0016840	Indonesia	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
155732	Israel	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
193877	Israel	Pending	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
212198	India	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
238923	India	Granted	A method for receiving a time division multiplexed (TDM) transmission	ATIS.3GPP.36.212V1070-2013
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4068455	Japan	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
2007-062300	Japan	Pending	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013

5475094	Japan	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
5450229	Japan	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
2012-219626	Japan	Pending	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
2014-027830	Japan	Pending	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
899961	Republic of Korea	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
899962	Republic of Korea	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
930845	Republic of Korea	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
241451	Mexico	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
271307	Mexico	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
297273	Mexico	Granted	Method and apparatus for multiplexing high-speed packet data transmission with voice/data transmission	ATIS.3GPP.36.212V1070-2013
20032063	Norway	Pending	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
2293441	Russian Federation	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
2434339	Russian Federation	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
96849	Singapore	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
NI-201580	Taiwan	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
74396	Ukraine	Granted	Method and Apparatus for Multiplexing High-Speed Packet Data Transmission with Voice/Data Transmission	ATIS.3GPP.36.212V1070-2013
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.321V1080-2013
2012207032	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.321V1080-2013

2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.321V1080-2013
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
01983955.4	European Patent Convention	Pending	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.321V1080-2013
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.321V1080-2013
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.36.321V1080-2013
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.321V1080-2013
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
RE42,543	United States	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.321V1080-2013
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.321V1080-2013
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.331V1090-2013
2012207032	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.331V1090-2013
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.331V1090-2013
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
01983955.4	European Patent Convention	Pending	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013

HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.331V1090-2013
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.331V1090-2013
224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.36.331V1090-2013
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.331V1090-2013
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
RE42,543	United States	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.331V1090-2013
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.331V1090-2013
7,254,402	United States	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
2002215342	Australia	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
2007202699	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.355V1080-2013
2012207032	Australia	Pending	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.355V1080-2013
2425547	Canada	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.355V1080-2013
ZL01819146.0	China P.R.	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
01983955.4	European Patent Convention	Pending	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
HK1074671	Hong Kong	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
ID0021793	Indonesia	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.355V1080-2013
155206	Israel	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.355V1080-2013

224323	India	Granted	A method for a GPS receiver code-phase search range for an integrated GPS/Wireless terminal unit	ATIS.3GPP.36.355V1080-2013
4018535	Japan	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
865052	Republic of Korea	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.355V1080-2013
250944	Mexico	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
RE42,543	United States	Granted	GPS satellite signal acquisition assistance system and method in a wireless communications network	ATIS.3GPP.36.355V1080-2013
96042	Singapore	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
6614	Vietnam	Granted	GPS Satellite Signal Acquisition Assistance System and Method in a Wireless Communications Network	ATIS.3GPP.36.355V1080-2013
7,042,869	United States	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
PI0113647-0	Brazil	Pending	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
2417241	Canada	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
CL43.272	Chile	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
ZL01814834.4	China P.R.	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
EP1314276	Germany	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
EP1314276	European Patent Convention	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
EP1314276	Spain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
EP1314276	Finland	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
EP1314276	France	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
EP1314276	Great Britain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
1061322	Hong Kong	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
ID0019345	Indonesia	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013

154308	Israel	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
208642	India	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
EP1314276	Italy	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
4933019	Japan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
812434	Republic of Korea	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
241291	Mexico	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
EP1314276	Netherlands	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
20030949	Norway	Pending	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
524015	New Zealand	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
2282942	Russian Federation	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
EP1314276	Sweden	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	ATIS.3GPP.36.211V1070-2013
97011	Singapore	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
NI-189137	Taiwan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
75602	Ukraine	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	ATIS.3GPP.36.211V1070-2013
7,042,869	United States	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
PI0113647-0	Brazil	Pending	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
2417241	Canada	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
CL43.272	Chile	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
ZL01814834.4	China P.R.	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
EP1314276	Germany	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003

EP1314276	European Patent Convention	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
EP1314276	Spain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
EP1314276	Finland	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
EP1314276	France	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
EP1314276	Great Britain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
1061322	Hong Kong	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
ID0019345	Indonesia	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
154308	Israel	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
208642	India	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
EP1314276	Italy	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
4933019	Japan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
812434	Republic of Korea	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
241291	Mexico	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
EP1314276	Netherlands	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
20030949	Norway	Pending	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
524015	New Zealand	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
2282942	Russian Federation	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
EP1314276	Sweden	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.211V3120-2003
97011	Singapore	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
NI-189137	Taiwan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003

75602	Ukraine	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.211V3120-2003
7,042,869	United States	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
PI0113647-0	Brazil	Pending	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
2417241	Canada	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
CL43.272	Chile	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
ZL01814834.4	China P.R.	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
EP1314276	Germany	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
EP1314276	European Patent Convention	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
EP1314276	Spain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
EP1314276	Finland	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
EP1314276	France	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
EP1314276	Great Britain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
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154308	Israel	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
208642	India	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
EP1314276	Italy	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
4933019	Japan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
812434	Republic of Korea	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
241291	Mexico	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003

EP1314276	Netherlands	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
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524015	New Zealand	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
2282942	Russian Federation	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
EP1314276	Sweden	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.212V3110-2003
97011	Singapore	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
NI-189137	Taiwan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
75602	Ukraine	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.212V3110-2003
7,042,869	United States	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
PI0113647-0	Brazil	Pending	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
2417241	Canada	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
CL43.272	Chile	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
ZL01814834.4	China P.R.	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
EP1314276	Germany	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
EP1314276	European Patent Convention	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
EP1314276	Spain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
EP1314276	Finland	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
EP1314276	France	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
EP1314276	Great Britain	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
1061322	Hong Kong	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004

ID0019345	Indonesia	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
154308	Israel	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
208642	India	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
EP1314276	Italy	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
4933019	Japan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
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241291	Mexico	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
EP1314276	Netherlands	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
20030949	Norway	Pending	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
524015	New Zealand	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
2282942	Russian Federation	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
EP1314276	Sweden	Granted	Method and apparatus for gated ACK/NAK channel in a communication system	T1.3GPP.25.213V390-2004
97011	Singapore	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
NI-189137	Taiwan	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
75602	Ukraine	Granted	Method and Apparatus for Gated ACK/NAK Channel in a Communication System	T1.3GPP.25.213V390-2004
5,874,914	United States	Granted	GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
5,841,396	United States	Granted	GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
0885492	Switzerland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
6,064,336	United States	Granted	GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
EP2169848	Germany	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.36.355V1080-2013
10184383.7	European Patent Convention	Pending	Device and method for determining position information of a SPS receiver having a cell based communication receiver	ATIS.3GPP.36.355V1080-2013

10108880.4	Hong Kong	Pending	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.36.355V1080-2013
EP0950194	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP2169848	European Patent Convention	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.36.355V1080-2013
EP2169848	Great Britain	Granted	Device and method to determine approximate doppler to assist a mobile system	ATIS.3GPP.36.355V1080-2013
HK1024530	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
0885492	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP1798564	Germany	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.36.355V1080-2013
EP0950194	Germany	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
1998-525618	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
0885492	Denmark	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP1798564	European Patent Convention	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.36.355V1080-2013
10183754.0	European Patent Convention	Pending	An improved mobile GPS receiver	ATIS.3GPP.36.355V1080-2013
11106664.9	Hong Kong	Pending	An improved mobile GPS receiver	ATIS.3GPP.36.355V1080-2013
10183782.1	European Patent Convention	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.36.355V1080-2013
11108387.1	Hong Kong	Pending	An improved GPS receiver utilizing satellite position information for compensating Doppler	ATIS.3GPP.36.355V1080-2013
EP0885492	European Patent Convention	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP1798564	Spain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.36.355V1080-2013
EP0950194	Spain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP0950194	Finland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP1798564	France	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.36.355V1080-2013
EP0950194	France	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP1798564	Great Britain	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.36.355V1080-2013
EP0950194	Great Britain	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	Greece	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
HK1017182	Hong Kong	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
1105459	Hong Kong	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
0885492	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013

EP0950194	Ireland	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP1798564	Italy	Granted	An improved GPS receiver utilizing satellite position information for compensating doppler	ATIS.3GPP.36.355V1080-2013
EP0950194	Italy	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
531936/97	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
2007-228963	Japan	Pending	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
2010-010078	Japan	Pending	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
2013-97604	Japan	Pending	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
663899	Republic of Korea	Granted	An Improved GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
0885492	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP0950194	Netherlands	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	Portugal	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
0885492	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
EP0950194	Sweden	Granted	An improved GPS receiver utilizing a communication link	ATIS.3GPP.36.355V1080-2013
6,208,290	United States	Granted	GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
6,421,002	United States	Granted	GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
6,400,314	United States	Granted	GPS Receiver Utilizing a Communication Link	ATIS.3GPP.36.355V1080-2013
6,131,067	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.24.030V1100-2014
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.24.030V1100-2014
6,131,067	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.24.080V1100-2014
6,661,372	United States	Granted	Client-Server Based Remote Locator Device	ATIS.3GPP.24.080V1100-2014
5,812,087	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
PI9807295-1	Brazil	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.36.355V1080-2013
PI9816304-3	Brazil	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.36.355V1080-2013
6,052,081	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
6,239,742	United States	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Switzerland	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Germany	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Denmark	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	European Patent Convention	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013

EP0958530	Spain	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Finland	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	France	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Great Britain	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Greece	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
1025156	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Ireland	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
4316676	Japan	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.36.355V1080-2013
4757291	Japan	Granted	Method and apparatus for satellite positioning system based time measurement	ATIS.3GPP.36.355V1080-2013
ZL98802276.1	China P.R.	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Portugal	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
EP0958530	Sweden	Granted	Method and Apparatus for Satellite Positioning System Based Time Measurement	ATIS.3GPP.36.355V1080-2013
5,945,944	United States	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Belgium	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
6,150,980	United States	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
6,433,734	United States	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Switzerland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Belgium	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Switzerland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Germany	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	European Patent Convention	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Spain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Finland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	France	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Great Britain	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Ireland	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Italy	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Liechtenstein	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
EP1262790	Netherlands	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013

EP1262790	Sweden	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
08165134.1	European Patent Convention	Pending	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
09104857.5	Hong Kong	Pending	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Germany	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Denmark	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	European Patent Convention	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Spain	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Finland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	France	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Great Britain	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Greece	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
1024060	Hong Kong	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Ireland	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Italy	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
525640/98	Japan	Pending	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
5015615	Japan	Granted	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
2010-013509	Japan	Pending	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
2010-013519	Japan	Pending	Method and apparatus for determining time for GPS receivers	ATIS.3GPP.36.355V1080-2013
573397	Republic of Korea	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Liechtenstein	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Netherlands	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Portugal	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
EP0941487	Sweden	Granted	Method and Apparatus for Determining Time for GPS Receivers	ATIS.3GPP.36.355V1080-2013
6,236,354	United States	Granted	Reducing Satellite Signal Interference in a Global Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
6,061,018	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
763226	Australia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	Belgium	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
PI9910229-3	Brazil	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
2331709	Canada	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
6,307,504	United States	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
159182	Israel	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013

1145035	Germany	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP2144079	Germany	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP2144079	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
HK1140266	Hong Kong	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1145035	European Patent Convention	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	European Patent Convention	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
1145035	Spain	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Spain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	Spain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
1145035	Finland	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Finland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	Finland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
1145035	France	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	France	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	France	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
1145035	Great Britain	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Great Britain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013

EP1840592	Great Britain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP2144079	Great Britain	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
1049044	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
HK1079849	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
HK1079850	Hong Kong	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
ID0027162	Indonesia	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	Ireland	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
221693	India	Granted	A method for determining a position of a mobile satellite positioning system receiver and a data processing station	ATIS.3GPP.36.355V1080-2013
139469	Israel	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
1145035	Italy	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Italy	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	Italy	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
4938172	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
4965535	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
5410303	Japan	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
2011-194898	Japan	Pending	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
622329	Republic of Korea	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
223912	Mexico	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013

EP1840592	Netherlands	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
ZL99808172.8	China P.R.	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
ZL200510066821.6	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
ZL200510066822.0	China P.R.	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
1145035	Sweden	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
EP1840591	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
EP1840592	Sweden	Granted	Method and system for using altitude information in a satellite positioning system	ATIS.3GPP.36.355V1080-2013
76717	Singapore	Granted	Method and System for Using Altitude Information in a Satellite Positioning System	ATIS.3GPP.36.355V1080-2013
6,104,338	United States	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
749670	Australia	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	Belgium	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Belgium	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
PI9911439-9	Brazil	Granted	RECEIVER, METHOD TO OPERATE A RECEIVER and METHOD TO DETERMINE the POSITION from INFORMATION, OF A SYSTEM OF POSITIONING FOR MOBILE SATELLITE (SPS)	ATIS.3GPP.36.355V1080-2013
2331684	Canada	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	Germany	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Germany	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	European Patent Convention	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	European Patent Convention	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	Spain	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Spain	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013

EP1076834	Finland	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Finland	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	France	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	France	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	Great Britain	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Great Britain	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
1036108	Hong Kong	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
HK1116871	Hong Kong	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
ID0012285	Indonesia	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Ireland	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
216405	India	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
139458	Israel	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	Italy	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Italy	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
2000-547489	Japan	Pending	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
2010-002895	Japan	Pending	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
5558860	Japan	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
610132	Republic of Korea	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
231724	Mexico	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	Netherlands	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013

EP1873549	Netherlands	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
ZL99808039.X	China P.R.	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1076834	Sweden	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
EP1873549	Sweden	Granted	Method and apparatus for operating a satellite positioning system receiver	ATIS.3GPP.36.355V1080-2013
76672	Singapore	Granted	Method and Apparatus for Operating a Satellite Positioning System Receiver	ATIS.3GPP.36.355V1080-2013
5,999,124	United States	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
751735	Australia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
PI9909783-4	Brazil	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
2329619	Canada	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP1073913	Germany	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP2078966	Germany	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
EP1073913	European Patent Convention	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP2078966	European Patent Convention	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
EP1073913	Spain	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP2078966	Spain	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
113207	Finland	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP1073913	France	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP2078966	France	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
EP1073913	Great Britain	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP2078966	Great Britain	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013

1037233	Hong Kong	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
ID0013939	Indonesia	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
210625	India	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
139138	Israel	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP1073913	Italy	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP2078966	Italy	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
5026634	Japan	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
5405334	Japan	Granted	Satellite positioning system augmentation with wireless communication signals	ATIS.3GPP.36.355V1080-2013
672265	Republic of Korea	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
224349	Mexico	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP1073913	Netherlands	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
ZL99807553.1	China P.R.	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
EP1073913	Sweden	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
76783	Singapore	Granted	Satellite Positioning System Augmentation with Wireless Communication Signals	ATIS.3GPP.36.355V1080-2013
6,133,874	United States	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
755817	Australia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Belgium	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
PI9912895-0	Brazil	Granted	Method and apparatus for time-division power assignments in a wireless communication system	ATIS.3GPP.36.355V1080-2013
2339999	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
2640651	Canada	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013

EP1108223	Germany	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
EP1108223	European Patent Convention	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Spain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Finland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
EP1108223	France	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Great Britain	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
1039981	Hong Kong	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
ID0016941	Indonesia	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Ireland	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
214463	India	Granted	A method for reducing search time and a satellite positioning systems	ATIS.3GPP.36.355V1080-2013
141314	Israel	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Italy	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
5128732	Japan	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
2012-023280	Japan	Pending	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
672266	Republic of Korea	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
238821	Mexico	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Netherlands	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
ZL99811902.4	China P.R.	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013
EP1108223	Sweden	Granted	Method and apparatus for acquiring satellite positioning system signals	ATIS.3GPP.36.355V1080-2013
78909	Singapore	Granted	Method and Apparatus for Acquiring Satellite Positioning System Signals	ATIS.3GPP.36.355V1080-2013

6,377,209	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.36.355V1080-2013
773464	Australia	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Belgium	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
PI0009100-6	Brazil	Pending	Method and apparatus for measuring time, receiver and mobile receiver, as well as apparatus for assisting in time measuring related to satellite data messages for use with a satellite positioning system (SPS)	ATIS.3GPP.36.355V1080-2013
6,583,757	United States	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.36.355V1080-2013
2367032	Canada	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
ZL00805407.X	China P.R.	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Germany	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	European Patent Convention	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Spain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Finland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	France	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Great Britain	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
1042749	Hong Kong	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Ireland	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
210564	India	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Italy	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
2000-607024	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
2011-138548	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013

2012-069287	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
2012-256106	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
2014-143363	Japan	Pending	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
829617	Republic of Korea	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
222020	Mexico	Granted	Method and Apparatus for Satellite Positioning System (SPS) Time Measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Netherlands	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
EP1171779	Sweden	Granted	Method and apparatus for satellite positioning system (SPS) time measurement	ATIS.3GPP.36.355V1080-2013
6,973,098	United States	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Austria	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Austria	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Austria	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Austria	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
2002239735	Australia	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
2007202278	Australia	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP1329066	Belgium	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Belgium	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Belgium	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Belgium	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
PI0114862-1	Brazil	Pending	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
11/165,882	United States	Pending	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013

2427007	Canada	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP1329066	Switzerland	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Switzerland	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Switzerland	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Switzerland	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
ZL01821314.6	China P.R.	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP1329066	Germany	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Germany	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Germany	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Germany	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Denmark	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Denmark	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Denmark	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Denmark	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	European Patent Convention	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	European Patent Convention	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
10179620.9	European Patent Convention	Pending	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
14167795.5	European Patent Convention	Pending	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	European Patent Convention	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	European Patent Convention	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013

EP1329066	Spain	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Spain	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Spain	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Spain	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Finland	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Finland	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Finland	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Finland	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	France	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	France	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	France	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	France	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Great Britain	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Great Britain	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Great Britain	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Great Britain	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Greece	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Greece	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Greece	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Greece	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013

HK1063547	Hong Kong	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
IDP0032931	Indonesia	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Ireland	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Ireland	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Ireland	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Ireland	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
155535	Israel	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
222594	India	Granted	A wireless communication method and apparatus for high speed packet data and low delay data transmissions	ATIS.3GPP.36.213V1070-2013
EP1329066	Italy	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Italy	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Italy	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Italy	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
4083578	Japan	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
10-1168838	Republic of Korea	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP1329066	Liechtenstein	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Liechtenstein	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
241062	Mexico	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
266216	Mexico	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP1329066	Netherlands	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Netherlands	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013

EP2276284	Netherlands	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Netherlands	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
20031826	Norway	Pending	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Portugal	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Portugal	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Portugal	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Portugal	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
2285342	Russian Federation	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
EP1329066	Sweden	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259621	Sweden	Granted	method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2276284	Sweden	Granted	Method and apparatus for determining a data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
EP2259472	Sweden	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
96359	Singapore	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
NI-182569	Taiwan	Granted	Method and Apparatus for Determining a Data Rate in a High Rate Packet Data Wireless Communications System	ATIS.3GPP.36.213V1070-2013
74213	Ukraine	Granted	Method and apparatus for determining data rate in a high rate packet data wireless communications system	ATIS.3GPP.36.213V1070-2013
6,711,208	United States	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.212V3110-2003
PI0115906-2	Brazil	Pending	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.212V3110-2003
ZL01822446.6	China P.R.	Granted	Method and apparatus for coherent estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
ZL200710142219.5	China P.R.	Granted	Method and apparatus for improving the performance of a turbo decoder using traffic-to-pilot energy	T1.3GPP.25.212V3110-2003
8,526,510	United States	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP1340318	Germany	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.212V3110-2003
EP1598974	Germany	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP2249502	Germany	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP1340318	European Patent Convention	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.212V3110-2003

EP1598974	European Patent Convention	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP2249502	European Patent Convention	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP2249502	Spain	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP2249502	France	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP1340318	Great Britain	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.212V3110-2003
EP1598974	Great Britain	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP2249502	Great Britain	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
06105602.3	Hong Kong	Pending	Method and apparatus for coherent estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
EP2249502	Italy	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
4021764	Japan	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.212V3110-2003
848736	Republic of Korea	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.212V3110-2003
EP2249502	Netherlands	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.212V3110-2003
6,711,208	United States	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.213V390-2004
PI0115906-2	Brazil	Pending	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.213V390-2004
ZL01822446.6	China P.R.	Granted	Method and apparatus for coherent estimation of traffic-to-pilot ratios	T1.3GPP.25.213V390-2004
ZL200710142219.5	China P.R.	Granted	Method and apparatus for improving the performance of a turbo decoder using traffic-to-pilot energy	T1.3GPP.25.213V390-2004
8,526,510	United States	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.213V390-2004
EP1340318	Germany	Granted	Estimation of Traffic-to-Pilot Ratios	T1.3GPP.25.213V390-2004
EP1598974	Germany	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.213V390-2004
EP2249502	Germany	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.213V390-2004
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EP2249502	European Patent Convention	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.213V390-2004
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EP2249502	Great Britain	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.213V390-2004
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EP2249502	Netherlands	Granted	Estimation of traffic-to-pilot ratios	T1.3GPP.25.213V390-2004
6,804,218	United States	Granted	Method and Apparatus for Improved Detection of Rate Errors in Variable Rate Receivers	T1.3GPP.25.212V3110-2003
2002219914	Australia	Granted	Method and System for Validating Detected Rates of Received Variable Rate Speech Frames	T1.3GPP.25.212V3110-2003

PI0115905-4	Brazil	Pending	Method and System for Validating Detected Rates of Received Variable Rate Speech Frames	T1.3GPP.25.212V3110-2003
7,590,096	United States	Granted	Method and apparatus for improved detection of rate errors in variable rate receivers	T1.3GPP.25.212V3110-2003
8,243,695	United States	Granted	Method and apparatus for improved detection of rate errors in variable rate receivers	T1.3GPP.25.212V3110-2003
2430883	Canada	Granted	Method and apparatus for improved detection of rate errors in variable rate receivers	T1.3GPP.25.212V3110-2003
2794099	Canada	Pending	Method and apparatus for improved detection of rate errors in variable rate receivers	T1.3GPP.25.212V3110-2003
ZL01821962.4	China P.R.	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
200910004746.9	China P.R.	Pending	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
01270033.2	European Patent Convention	Pending	Method and System for Validating Detected Rates of Received Variable Rate Speech Frames	T1.3GPP.25.212V3110-2003
10000233.6	European Patent Convention	Pending	Method and Apparatus for Improved Detection of Rate Errors in Variable Rate Receivers	T1.3GPP.25.212V3110-2003
10103776.2	Hong Kong	Pending	Method and apparatus for improved detection of rate errors in variable rate receivers	T1.3GPP.25.212V3110-2003
HK1063121	Hong Kong	Granted	Method and apparatus for improved detection of rate errors in variable rate receivers	T1.3GPP.25.212V3110-2003
156249	Israel	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
197482	Israel	Granted	Method and apparatus for improved detection of rate errors in variable rate receivers	T1.3GPP.25.212V3110-2003
204015	Israel	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
211801	India	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
4754769	Japan	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
5059795	Japan	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
915560	Republic of Korea	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
955787	Republic of Korea	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
964527	Republic of Korea	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003

252610	Mexico	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
280719	Mexico	Granted	Method and system for validating detected rates of received variable rate speech frames	T1.3GPP.25.212V3110-2003
20032496	Norway	Pending	Method and System for Validating Detected Rates of Received Variable Rate Speech Frames	T1.3GPP.25.212V3110-2003
2284664	Russian Federation	Granted	Method and System for Validating Detected Rates of Received Variable Rate Speech Frames	T1.3GPP.25.212V3110-2003
98722	Singapore	Granted	Method and System for Validating Detected Rates of Received Variable Rate Speech Frames	T1.3GPP.25.212V3110-2003
NI-179297	Taiwan	Granted	Method and Apparatus for Improved Detection of Rate Errors in Variable Rate Receivers	T1.3GPP.25.212V3110-2003
75665	Ukraine	Granted	Method and System for Validating Detected Rates of Received Variable Rate Speech Frames	T1.3GPP.25.212V3110-2003
7,945,266	United States	Granted	Method and apparatus for call recovery in a wireless communication system	T1.3GPP.25.214V3120-2004
EP1346594	Austria	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Belgium	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Switzerland	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
ZL01820014.1	China P.R.	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
ZL200710004478.1	China P.R.	Granted	Method and apparatus for call recovery in a wireless communication system	T1.3GPP.25.214V3120-2004
201010200470.4	China P.R.	Pending	Method and apparatus for call recovery in a wireless communication system	T1.3GPP.25.214V3120-2004
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EP1346594	Denmark	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	European Patent Convention	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Spain	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Finland	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	France	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004

EP1346594	Great Britain	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Greece	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
HK1063554	Hong Kong	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
W-00200301302	Indonesia	Pending	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Ireland	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
155894	Israel	Pending	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
223168	India	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Italy	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
4202132	Japan	Granted	Method and apparatus for call recovery in a wireless communication system	T1.3GPP.25.214V3120-2004
4713601	Japan	Granted	Method and apparatus for call recovery in a wireless communication system	T1.3GPP.25.214V3120-2004
918214	Republic of Korea	Granted	Method and apparatus for call recovery in a wireless communication system	T1.3GPP.25.214V3120-2004
1025463	Republic of Korea	Granted	Method and apparatus for call recovery in a wireless communication system	T1.3GPP.25.214V3120-2004
241146	Mexico	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Netherlands	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
20032524	Norway	Pending	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Portugal	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
2301505	Russian Federation	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
2007105080	Russian Federation	Pending	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1346594	Sweden	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
97307	Singapore	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004

79233	Ukraine	Granted	Method and Apparatus for Call Recovery in a Wireless Communication System	T1.3GPP.25.214V3120-2004
6,961,388	United States	Granted	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
PI0206877-0	Brazil	Pending	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
11/208,263	United States	Pending	Coding scheme for a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL02805983.2	China P.R.	Granted	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
200710087637.9	China P.R.	Pending	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
02717372.3	European Patent Convention	Pending	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
HK1063698	Hong Kong	Granted	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
07111899.2	Hong Kong	Pending	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
2002-561419	Japan	Pending	Coding scheme for a wireless communication system	ATIS.3GPP.36.211V1070-2013
883941	Republic of Korea	Granted	Coding scheme for a wireless communication system	ATIS.3GPP.36.211V1070-2013
NI-200794	Taiwan	Granted	Method for Preparing Data forTransmission on a Plurality of Transmission Channels and Wireless Communication System Operative to Transmit Data on a Plurality of Transmission Channels	ATIS.3GPP.36.211V1070-2013
6,961,388	United States	Granted	Coding Scheme for a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
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883941	Republic of Korea	Granted	Coding scheme for a wireless communication system	ATIS.3GPP.36.213V1070-2013
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883941	Republic of Korea	Granted	Coding scheme for a wireless communication system	T1.3GPP.25.212V3110-2003
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NI-200794	Taiwan	Granted	Method for Preparing Data for Transmission on a Plurality of Transmission Channels and Wireless Communication System Operative to Transmit Data on a Plurality of Transmission Channels	T1.3GPP.25.214V3120-2004
6,771,706	United States	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
EP1371147	Belgium	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
PI0208312-4	Brazil	Pending	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
7,590,182	United States	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
7,949,060	United States	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
7,411,929	United States	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
ZL02808558.2	China P.R.	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013

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EP1786118	Great Britain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
HK1068465	Hong Kong	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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4593878	Japan	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5362274	Japan	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.211V1070-2013

10-0950141	Republic of Korea	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-2009-7007598	Republic of Korea	Pending	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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ZL02808558.2	China P.R.	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
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EP1786118	European Patent Convention	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
10176952.9	European Patent Convention	Pending	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
10176954.5	European Patent Convention	Pending	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1371147	Spain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1786118	Spain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013

EP1371147	Finland	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1371147	France	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1786118	France	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1371147	Great Britain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1786118	Great Britain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
HK1068465	Hong Kong	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07111106.1	Hong Kong	Pending	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1371147	Ireland	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1371147	Italy	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1786118	Italy	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
4593878	Japan	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5362274	Japan	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-0950141	Republic of Korea	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-2009-7007598	Republic of Korea	Pending	Method and apparatus for utilizing channel state information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1371147	Netherlands	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
EP1371147	Sweden	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
I230525	Taiwan	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
6,771,706	United States	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1371147	Belgium	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
PI0208312-4	Brazil	Pending	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004

7,590,182	United States	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	T1.3GPP.25.214V3120-2004
7,949,060	United States	Granted	Method and apparatus for utilizing channel state information in a wireless communication system	T1.3GPP.25.214V3120-2004
7,411,929	United States	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
ZL02808558.2	China P.R.	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1371147	Germany	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1786118	Germany	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1371147	European Patent Convention	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1786118	European Patent Convention	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
10176952.9	European Patent Convention	Pending	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
10176954.5	European Patent Convention	Pending	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1371147	Spain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1786118	Spain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
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EP1786118	France	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
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EP1786118	Great Britain	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
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EP1371147	Sweden	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
I230525	Taiwan	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
7,006,848	United States	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
7,006,848	United States	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
7,006,848	United States	Granted	Method and Apparatus for Utilizing Channel State Information in a Wireless Communication System	T1.3GPP.25.214V3120-2004
7,120,134	United States	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1827050	Austria	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP2202905	Austria	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
2002255575	Australia	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
2007237369	Australia	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
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EP2202905	Belgium	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
PI0207421-4	Brazil	Pending	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003

7,940,720	United States	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
2438527	Canada	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
2806712	Canada	Pending	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
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EP2202905	Switzerland	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
ZL02807463.7	China P.R.	Granted	Method and apparatus for controlling transmit power of a supplemental channel in a reverse link	T1.3GPP.25.211V3120-2003
ZL200610103016.0	China P.R.	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
200610103017.5	China P.R.	Pending	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
8,098,581	United States	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP1436910	Germany	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1524874	Germany	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP2202905	Germany	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP1827050	Denmark	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP2202905	Denmark	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP1436910	European Patent Convention	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP1827050	European Patent Convention	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP2202905	European Patent Convention	Granted	Method and apparatus for reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
HK1144988	Hong Kong	Granted	Method and apparatus for reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003

EP1524874	Spain	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP2202905	Spain	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP1436910	Finland	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP1436910	France	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1524874	France	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1827050	France	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
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EP1436910	Great Britain	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1524874	Great Britain	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP1827050	Greece	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP2202905	Greece	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
HK1067466	Hong Kong	Granted	Method and apparatus for controlling transmit power of a supplemental channel in a reverse link	T1.3GPP.25.211V3120-2003
HK1077446	Hong Kong	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
07111753.7	Hong Kong	Pending	Method and Apparatus for Controlling Transmit Power of a Supplemental Channel in a Reverse Link	T1.3GPP.25.211V3120-2003

08102193.3	Hong Kong	Pending	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
HK1106348	Hong Kong	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
ID 0 019 068	Indonesia	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
IDP0029691	Indonesia	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
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EP2202905	Ireland	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
157370	Israel	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
193787	Israel	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
235313	India	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
EP1436910	Italy	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP2202905	Italy	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
4040976	Japan	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
4805876	Japan	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
5080666	Japan	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
884510	Republic of Korea	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
926917	Republic of Korea	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
242522	Mexico	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
261461	Mexico	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003

EP1524874	Netherlands	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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20033605	Norway	Pending	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP2202905	Portugal	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
2307479	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
2419206	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
2424614	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
2433542	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1436910	Sweden	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1524874	Sweden	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
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EP2202905	Sweden	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.211V3120-2003
100099	Singapore	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
NI-182847	Taiwan	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.211V3120-2003
74413	Ukraine	Granted	Architecture of a reverse channel and a method for transmitting data over the reverse channel of a wireless communication system (variants); a method for controlling the signal transmission power in the reverse channel of the system; a remote terminal of the system	T1.3GPP.25.211V3120-2003
7,120,134	United States	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1827050	Austria	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004

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2002255575	Australia	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
2007237369	Australia	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
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PI0207421-4	Brazil	Pending	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
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HK1077446	Hong Kong	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
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HK1106348	Hong Kong	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
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157370	Israel	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
193787	Israel	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
235313	India	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
EP1436910	Italy	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1524874	Italy	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1827050	Italy	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
EP2202905	Italy	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
4040976	Japan	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004

4805876	Japan	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
5080666	Japan	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
884510	Republic of Korea	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
926917	Republic of Korea	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
242522	Mexico	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
261461	Mexico	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
EP1524874	Netherlands	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1827050	Netherlands	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
EP2202905	Netherlands	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
20033605	Norway	Pending	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1827050	Portugal	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
EP2202905	Portugal	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
2307479	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
2419206	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
2424614	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
2433542	Russian Federation	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1436910	Sweden	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1524874	Sweden	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1827050	Sweden	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004
EP2202905	Sweden	Granted	Reverse link channel architecture for a wireless communication system	T1.3GPP.25.214V3120-2004

100099	Singapore	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
NI-182847	Taiwan	Granted	Reverse Link Channel Architecture for a Wireless Communication System	T1.3GPP.25.214V3120-2004
74413	Ukraine	Granted	Architecture of a reverse channel and a method for transmitting data over the reverse channel of a wireless communication system (variants); a method for controlling the signal transmission power in the reverse channel of the system; a remote terminal of the system	T1.3GPP.25.214V3120-2004
6,985,453	United States	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Austria	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2002247030	Australia	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2006252253	Australia	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Belgium	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0207875-9	Brazil	Pending	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2438440	Canada	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Switzerland	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL02807215.4	China P.R.	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200710004479.6	China P.R.	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201410024885.9	China P.R.	Pending	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
14109164.5	Hong Kong	Pending	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1360778	Germany	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Germany	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Denmark	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1360778	European Patent Convention	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013

EP1801997	European Patent Convention	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10009797.1	European Patent Convention	Pending	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1360778	Spain	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Spain	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1360778	Finland	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Finland	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1360778	France	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	France	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1360778	Great Britain	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Great Britain	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Greece	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1066935	Hong Kong	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1104696	Hong Kong	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ID0019422	Indonesia	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1360778	Ireland	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Ireland	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
157405	Israel	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201992	Israel	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
225820	India	Granted	A method of providing link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
262171	India	Granted	Remote station apparatus	ATIS.3GPP.36.213V1070-2013
EP1360778	Italy	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013

EP1801997	Italy	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2002-566870	Japan	Pending	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5253741	Japan	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
4723617	Japan	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-035671	Japan	Pending	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-0933513	Republic of Korea	Granted	Method and apparatus for link quality feedback in a wireless communication	ATIS.3GPP.36.213V1070-2013
10-0899145	Republic of Korea	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
241141	Mexico	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
259366	Mexico	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
304958	Mexico	Granted	Method and apparatus for link quality feedback in a wireless communication	ATIS.3GPP.36.213V1070-2013
EP1360778	Netherlands	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Netherlands	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
329818	Norway	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
20070587	Norway	Pending	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Portugal	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2285338	Russian Federation	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1801997	Sweden	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
98962	Singapore	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
NI-178726	Taiwan	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013
74416	Ukraine	Granted	Method and apparatus for link quality feedback in a wireless communication system	ATIS.3GPP.36.213V1070-2013

6,662,024	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
2002309974	Australia	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
PI0209636-6	Brazil	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
7,248,879	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
7,907,972	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
8,489,107	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
2446877	Canada	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
ZL02813159.2	China P.R.	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
EP1388231	Germany	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
EP1830509	Germany	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
EP1388231	European Patent Convention	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
EP1830509	European Patent Convention	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
EP1388231	Spain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
EP1830509	Spain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
EP1388231	France	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
EP1830509	France	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
EP1388231	Great Britain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
EP1830509	Great Britain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
08102323.6	Hong Kong	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
ID0019421	Indonesia	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013

158760	Israel	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
230228	India	Granted	A method for scheduling downlink data transmission and scheduling data transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1830509	Italy	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
4537004	Japan	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
10-0938302	Republic of Korea	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
240059	Mexico	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
EP1830509	Netherlands	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
20035072	Norway	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
2294599	Russian Federation	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
100455	Singapore	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.213V1070-2013
NI-182607	Taiwan	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.213V1070-2013
74882	Ukraine	Granted	Method for Scheduling Downlink Data Transmission to Plurality of Terminals in Wireless Communication System, Multiple-Input	ATIS.3GPP.36.213V1070-2013
6,662,024	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
2002309974	Australia	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
PI0209636-6	Brazil	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
7,248,879	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
7,907,972	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
8,489,107	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
2446877	Canada	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
ZL02813159.2	China P.R.	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013

EP1388231	Germany	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
EP1830509	Germany	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
EP1388231	European Patent Convention	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
EP1830509	European Patent Convention	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
EP1388231	Spain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
EP1830509	Spain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
EP1388231	France	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
EP1830509	France	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
EP1388231	Great Britain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
EP1830509	Great Britain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
08102323.6	Hong Kong	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
ID0019421	Indonesia	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
158760	Israel	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
230228	India	Granted	A method for scheduling downlink data transmission and scheduling data transmission in a wireless communication system	ATIS.3GPP.36.300V1090-2013
EP1830509	Italy	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
4537004	Japan	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
10-0938302	Republic of Korea	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
240059	Mexico	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
EP1830509	Netherlands	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
20035072	Norway	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013

2294599	Russian Federation	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
100455	Singapore	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	ATIS.3GPP.36.300V1090-2013
NI-182607	Taiwan	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.300V1090-2013
74882	Ukraine	Granted	Method for Scheduling Downlink Data Transmission to Plurality of Terminals in Wireless Communication System, Multiple-Input	ATIS.3GPP.36.300V1090-2013
6,662,024	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
2002309974	Australia	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
PI0209636-6	Brazil	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
7,248,879	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
7,907,972	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
8,489,107	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
2446877	Canada	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
ZL02813159.2	China P.R.	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
EP1388231	Germany	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
EP1830509	Germany	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
EP1388231	European Patent Convention	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
EP1830509	European Patent Convention	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
EP1388231	Spain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
EP1830509	Spain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
EP1388231	France	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
EP1830509	France	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003

EP1388231	Great Britain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
EP1830509	Great Britain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
08102323.6	Hong Kong	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
ID0019421	Indonesia	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
158760	Israel	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
230228	India	Granted	A method for scheduling downlink data transmission and scheduling data transmission in a wireless communication system	T1.3GPP.25.211V3120-2003
EP1830509	Italy	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
4537004	Japan	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
10-0938302	Republic of Korea	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
240059	Mexico	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
EP1830509	Netherlands	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
20035072	Norway	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
2294599	Russian Federation	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
100455	Singapore	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.211V3120-2003
NI-182607	Taiwan	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.211V3120-2003
74882	Ukraine	Granted	Method for Scheduling Downlink Data Transmission to Plurality of Terminals in Wireless Communication System, Multiple-Input	T1.3GPP.25.211V3120-2003
6,662,024	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
2002309974	Australia	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
PI0209636-6	Brazil	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
7,248,879	United States	Granted	Method and Apparatus for Allocating Downlink Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004

7,907,972	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
8,489,107	United States	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
2446877	Canada	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
ZL02813159.2	China P.R.	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
EP1388231	Germany	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
EP1830509	Germany	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
EP1388231	European Patent Convention	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
EP1830509	European Patent Convention	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
EP1388231	Spain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
EP1830509	Spain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
EP1388231	France	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
EP1830509	France	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
EP1388231	Great Britain	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
EP1830509	Great Britain	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
08102323.6	Hong Kong	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
ID0019421	Indonesia	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
158760	Israel	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
230228	India	Granted	A method for scheduling downlink data transmission and scheduling data transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
EP1830509	Italy	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
4537004	Japan	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004

10-0938302	Republic of Korea	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
240059	Mexico	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
EP1830509	Netherlands	Granted	Method and apparatus for allocating resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
20035072	Norway	Pending	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
2294599	Russian Federation	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
100455	Singapore	Granted	Method and Apparatus for Allocating Resources in a Multiple-Input Multiple-Output (MIMO) Communication System	T1.3GPP.25.214V3120-2004
NI-182607	Taiwan	Granted	Method and apparatus for allocating downlink resources in a multiple-input multiple-output (MIMO) communication system	T1.3GPP.25.214V3120-2004
74882	Ukraine	Granted	Method for Scheduling Downlink Data Transmission to Plurality of Terminals in Wireless Communication System, Multiple-Input	T1.3GPP.25.214V3120-2004
6,760,582	United States	Granted	Method and Apparatus for Testing Assisted Position Location Capable Devices	ATIS.3GPP.36.171V1010-2011
2003209015	Australia	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
PI0307416-1	Brazil	Pending	Method and Apparatus for Testing Assisted Position Location Capable Devices	ATIS.3GPP.36.171V1010-2011
ZL03803291.0	China P.R.	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
EP1474700	Germany	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
EP1474700	European Patent Convention	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
EP1474700	Great Britain	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
HK1078652	Hong Kong	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
163042	Israel	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
247137	India	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
4593925	Japan	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
980224	Republic of Korea	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011

2328016	Russian Federation	Granted	Method and apparatus for testing assisted position location capable devices	ATIS.3GPP.36.171V1010-2011
7,826,414	United States	Granted	Channel allocations in a communications system	ATIS.3GPP.36.212V1070-2013
8,547,916	United States	Granted	Channel allocations in a communications system	ATIS.3GPP.36.212V1070-2013
14/042,402	United States	Pending	Channel allocations in a communications system	ATIS.3GPP.36.212V1070-2013
7,826,414	United States	Granted	Channel allocations in a communications system	ATIS.3GPP.36.213V1070-2013
8,547,916	United States	Granted	Channel allocations in a communications system	ATIS.3GPP.36.213V1070-2013
14/042,402	United States	Pending	Channel allocations in a communications system	ATIS.3GPP.36.213V1070-2013
6,983,166	United States	Granted	Power Control for a Channel with Multiple Formats in a Communication System	T1.3GPP.25.214V3120-2004
7,376,438	United States	Granted	Power Control for a Channel with Multiple Formats in a Communication System	T1.3GPP.25.214V3120-2004
8,023,988	United States	Granted	Power control for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
ZL02820166.3	China P.R.	Granted	Power control method and apparatus for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
200810176724.6	China P.R.	Pending	Power control for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
09109066.1	Hong Kong	Pending	Power control for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
ZL200910141417.9	China P.R.	Granted	Power control method and apparatus for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
10103538.1	Hong Kong	Pending	Power control method and apparatus for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
EP1419590	Germany	Granted	Power Control for a Channel with Multiple Formats in a Communication System	T1.3GPP.25.214V3120-2004
EP1419590	European Patent Convention	Granted	Power Control for a Channel with Multiple Formats in a Communication System	T1.3GPP.25.214V3120-2004
10002969.3	European Patent Convention	Pending	Power Control for a Channel with Multiple Formats in a Communication System	T1.3GPP.25.214V3120-2004
EP1419590	Great Britain	Granted	Power Control for a Channel with Multiple Formats in a Communication System	T1.3GPP.25.214V3120-2004
239559	India	Granted	A method for communication of data in a communication system utilizing a feedback power control scheme	T1.3GPP.25.214V3120-2004
4505221	Japan	Granted	Power control for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
5185161	Japan	Granted	Power control for a channel with multiple formats in communication system	T1.3GPP.25.214V3120-2004
10-0942651	Republic of Korea	Granted	Power control for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004

10-0974388	Republic of Korea	Granted	Power control for a channel with multiple formats in a communication system	T1.3GPP.25.214V3120-2004
I231665	Taiwan	Granted	Method and Apparatus for Controlling Transmit Power and Reporting Performance of Communications of Data in a Wireless Communication System	T1.3GPP.25.214V3120-2004
7,499,698	United States	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
EP1389400	Belgium	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
PI0209954-3	Brazil	Pending	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
7,881,714	United States	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
2448533	Canada	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
ZL02813537.7	China P.R.	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
ZL200810110399.3	China P.R.	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
7,747,283	United States	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
7,778,631	United States	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
EP1389400	Germany	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1389400	European Patent Convention	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1389400	Spain	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1389400	Finland	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1389400	France	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1389400	Great Britain	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
HK1067489	Hong Kong	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1389400	Ireland	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
232196	India	Granted	A method for synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013

EP1389400	Italy	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
4426187	Japan	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
4908479	Japan	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
2011-243679	Japan	Pending	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
919961	Republic of Korea	Granted	Synchronization of stored service parameters in a communication system	ATIS.3GPP.36.331V1090-2013
EP1389400	Netherlands	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1389400	Sweden	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
NI-181393	Taiwan	Granted	Synchronization of Stored Service Parameters in a Communication System	ATIS.3GPP.36.331V1090-2013
7,542,482	United States	Granted	Method and apparatus for message segmentation in a wireless communication system	ATIS.3GPP.36.322V1000-2011
7,103,021	United States	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	ATIS.3GPP.36.213V1070-2013
PI0212765-2	Brazil	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.213V1070-2013
7,924,781	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	ATIS.3GPP.36.213V1070-2013
8,879,481	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	ATIS.3GPP.36.213V1070-2013
ZL02822102.8	China P.R.	Granted	Method and apparatus for communicating data rate control information	ATIS.3GPP.36.213V1070-2013
201210362837.1	China P.R.	Pending	Method and apparatus for communicating data rate control information	ATIS.3GPP.36.213V1070-2013
EP1430621	Germany	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.213V1070-2013
EP1430621	European Patent Convention	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.213V1070-2013
EP1430621	France	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.213V1070-2013

EP1430621	Great Britain	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.213V1070-2013
05103221.0	Hong Kong	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.213V1070-2013
4236579	Japan	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.36.213V1070-2013
10-0971349	Republic of Korea	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.36.213V1070-2013
327683	Norway	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.36.213V1070-2013
NI-196071	Taiwan	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	ATIS.3GPP.36.213V1070-2013
7,103,021	United States	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	ATIS.3GPP.36.300V1090-2013
PI0212765-2	Brazil	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.300V1090-2013
7,924,781	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	ATIS.3GPP.36.300V1090-2013
8,879,481	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	ATIS.3GPP.36.300V1090-2013
ZL02822102.8	China P.R.	Granted	Method and apparatus for communicating data rate control information	ATIS.3GPP.36.300V1090-2013
201210362837.1	China P.R.	Pending	Method and apparatus for communicating data rate control information	ATIS.3GPP.36.300V1090-2013
EP1430621	Germany	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.300V1090-2013
EP1430621	European Patent Convention	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.300V1090-2013
EP1430621	France	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.300V1090-2013

EP1430621	Great Britain	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.300V1090-2013
05103221.0	Hong Kong	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	ATIS.3GPP.36.300V1090-2013
4236579	Japan	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.36.300V1090-2013
10-0971349	Republic of Korea	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.36.300V1090-2013
327683	Norway	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	ATIS.3GPP.36.300V1090-2013
NI-196071	Taiwan	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	ATIS.3GPP.36.300V1090-2013
7,103,021	United States	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	T1.3GPP.25.211V3120-2003
PI0212765-2	Brazil	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.211V3120-2003
7,924,781	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	T1.3GPP.25.211V3120-2003
8,879,481	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	T1.3GPP.25.211V3120-2003
ZL02822102.8	China P.R.	Granted	Method and apparatus for communicating data rate control information	T1.3GPP.25.211V3120-2003
201210362837.1	China P.R.	Pending	Method and apparatus for communicating data rate control information	T1.3GPP.25.211V3120-2003
EP1430621	Germany	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.211V3120-2003
EP1430621	European Patent Convention	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.211V3120-2003
EP1430621	France	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.211V3120-2003

EP1430621	Great Britain	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.211V3120-2003
05103221.0	Hong Kong	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.211V3120-2003
4236579	Japan	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	T1.3GPP.25.211V3120-2003
10-0971349	Republic of Korea	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	T1.3GPP.25.211V3120-2003
327683	Norway	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	T1.3GPP.25.211V3120-2003
NI-196071	Taiwan	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	T1.3GPP.25.211V3120-2003
7,103,021	United States	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	T1.3GPP.25.214V3120-2004
PI0212765-2	Brazil	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.214V3120-2004
7,924,781	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	T1.3GPP.25.214V3120-2004
8,879,481	United States	Granted	Method and apparatus for communications of data rate control information in a communication system	T1.3GPP.25.214V3120-2004
ZL02822102.8	China P.R.	Granted	Method and apparatus for communicating data rate control information	T1.3GPP.25.214V3120-2004
201210362837.1	China P.R.	Pending	Method and apparatus for communicating data rate control information	T1.3GPP.25.214V3120-2004
EP1430621	Germany	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.214V3120-2004
EP1430621	European Patent Convention	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.214V3120-2004
EP1430621	France	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.214V3120-2004

EP1430621	Great Britain	Granted	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.214V3120-2004
05103221.0	Hong Kong	Pending	Ceasing Transmission of Data Rate Control Information in a CDMA Communication System When the Mobile Station Transmits to the Idle Open State	T1.3GPP.25.214V3120-2004
4236579	Japan	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	T1.3GPP.25.214V3120-2004
10-0971349	Republic of Korea	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	T1.3GPP.25.214V3120-2004
327683	Norway	Granted	Ceasing transmission of data rate control information in a CDMA communication system when the mobile station transmits to the idle open state	T1.3GPP.25.214V3120-2004
NI-196071	Taiwan	Granted	Method and Apparatus for Communications of Data Rate Control Information in a CDMA Communication System	T1.3GPP.25.214V3120-2004
7,180,879	United States	Granted	Method and Apparatus for Call Setup Latency Reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Belgium	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Bulgaria	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
ZL02818478.5	China P.R.	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
ZL200610126150.2	China P.R.	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
200610126149.X	China P.R.	Pending	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
ZL200610126266.6	China P.R.	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
ZL200610172812.X	China P.R.	Granted	Method for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Czech Republic	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
7,417,976	United States	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
8,126,469	United States	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
7,986,674	United States	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
7,894,403	United States	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Germany	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099250	Germany	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2302977	Germany	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099252	Germany	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099250	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2302977	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
09164174.6	European Patent Convention	Pending	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099252	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Spain	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099252	Spain	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013

EP1417857	Finland	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	France	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099252	France	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Great Britain	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099250	Great Britain	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2302977	Great Britain	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099252	Great Britain	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Ireland	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
237695	India	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
1719/CHENP/2009	India	Pending	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
1720/CHENP/2009	India	Pending	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Italy	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP2099252	Italy	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
4903362	Japan	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
4971297	Japan	Granted	Method and Apparatus for Call Setup Latency Reduction	ATIS.3GPP.36.331V1090-2013
4897859	Japan	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
10-1034922	Republic of Korea	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
10-0954245	Republic of Korea	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
10-1034944	Republic of Korea	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Netherlands	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
EP1417857	Sweden	Granted	Method and apparatus for call setup latency reduction	ATIS.3GPP.36.331V1090-2013
NI-202184	Taiwan	Granted	Method and Apparatus for Call Setup Latency Reduction	ATIS.3GPP.36.331V1090-2013
7,180,879	United States	Granted	Method and Apparatus for Call Setup Latency Reduction	T1.3GPP.25.214V3120-2004
EP1417857	Belgium	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	Bulgaria	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
ZL02818478.5	China P.R.	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
ZL200610126150.2	China P.R.	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
200610126149.X	China P.R.	Pending	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
ZL200610126266.6	China P.R.	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
ZL200610172812.X	China P.R.	Granted	Method for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	Czech Republic	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
7,417,976	United States	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
8,126,469	United States	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
7,986,674	United States	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
7,894,403	United States	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	Germany	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP2099250	Germany	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP2302977	Germany	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP2099252	Germany	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP2099250	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004

EP2302977	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
09164174.6	European Patent Convention	Pending	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP2099252	European Patent Convention	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	Spain	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
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EP1417857	Finland	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	France	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
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EP2099250	Great Britain	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP2302977	Great Britain	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP2099252	Great Britain	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	Ireland	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
237695	India	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
1719/CHENP/2009	India	Pending	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
1720/CHENP/2009	India	Pending	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
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EP2099252	Italy	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
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10-1034944	Republic of Korea	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	Netherlands	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
EP1417857	Sweden	Granted	Method and apparatus for call setup latency reduction	T1.3GPP.25.214V3120-2004
NI-202184	Taiwan	Granted	Method and Apparatus for Call Setup Latency Reduction	T1.3GPP.25.214V3120-2004
6,952,411	United States	Granted	Method and Apparatus for Call Setup Latency Reduction	ATIS.3GPP.36.331V1090-2013
EP1417818	Belgium	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Bulgaria	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
02818510.2	China P.R.	Pending	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
201110437704.1	China P.R.	Pending	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Czech Republic	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Germany	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP2086202	Germany	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	European Patent Convention	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP2086202	European Patent Convention	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
10012153.2	European Patent Convention	Pending	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
HK1135249	Hong Kong	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Spain	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP2086202	Spain	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013

EP1417818	Finland	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	France	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP2086202	France	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Great Britain	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP2086202	Great Britain	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
05102744.0	Hong Kong	Pending	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Ireland	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
237080	India	Granted	A method for call set up in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2957/CHENP/2009	India	Pending	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Italy	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP2086202	Italy	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
4163108	Japan	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
10-0951018	Republic of Korea	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
10-1078566	Republic of Korea	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
10-1078497	Republic of Korea	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Netherlands	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
EP1417818	Sweden	Granted	Call setup latency reduction by encapsulating signalling messages	ATIS.3GPP.36.331V1090-2013
NI-186180	Taiwan	Granted	Method and Apparatus for Call Setup Latency Reduction	ATIS.3GPP.36.331V1090-2013
7,433,321	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.36.355V1080-2013
7,903,633	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a cdma communication system	ATIS.3GPP.36.355V1080-2013
8,477,742	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.36.355V1080-2013
7,796,549	United States	Granted	Method and apparatus for time-aligning transmissions from multiple base stations in a CDMA communication system	ATIS.3GPP.36.355V1080-2013
6,909,702	United States	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
PI0208735-9	Brazil	Pending	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
2442650	Canada	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
ZL02809331.3	China P.R.	Granted	Method and apparatus for out-of-band transmission of broadcast service option in a wireless communication system	ATIS.3GPP.36.300V1090-2013
EP1374506	Germany	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
EP1374506	European Patent Convention	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
EP1374506	France	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013

EP1374506	Great Britain	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
4615828	Japan	Granted	Method and apparatus for out-of-band transmission of broadcast service option in a wireless communication system	ATIS.3GPP.36.300V1090-2013
891882	Republic of Korea	Granted	Method and apparatus for out-of-band transmission of broadcast service option in a wireless communication system	ATIS.3GPP.36.300V1090-2013
239444	Mexico	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
NI-196721	Taiwan	Granted	Method and Apparatus for Out-of-Band Transmission of Broadcast Service Option in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
7,693,508	United States	Granted	Method and apparatus for broadcast signaling in a wireless communication system	ATIS.3GPP.36.300V1090-2013
PI0208432-5	Brazil	Pending	Method and Apparatus for Broadcast Signaling in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
02809647.9	China P.R.	Pending	Method and Apparatus for Broadcast Signaling in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
02723676.9	European Patent Convention	Pending	Method and apparatus for broadcast signaling in a wireless communication system	ATIS.3GPP.36.300V1090-2013
4087713	Japan	Granted	Method and apparatus for broadcast signaling in a wireless communication system	ATIS.3GPP.36.300V1090-2013
2003-7012795	Republic of Korea	Pending	Method and Apparatus for Broadcast Signaling in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
20034316	Norway	Pending	Method and Apparatus for Broadcast Signaling in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
NI-197921	Taiwan	Granted	Method and Apparatus for Broadcast Signaling in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
7,349,425	United States	Granted	Method and Apparatus for Overhead Messaging in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
2002252549	Australia	Granted	Method and apparatus for broadcast services in a wireless communication system	ATIS.3GPP.36.300V1090-2013
PI0208497-0	Brazil	Pending	Method and Apparatus for Overhead Messaging in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
02810683.0	China P.R.	Pending	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
EP1374483	Germany	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
EP1374483	European Patent Convention	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
EP1374483	Great Britain	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013

ID0024776	Indonesia	Granted	Method and apparatus for data rate control in soft handoff and during cell-switching	ATIS.3GPP.36.300V1090-2013
158161	Israel	Granted	Method and apparatus for broadcast services in a wireless communication system	ATIS.3GPP.36.300V1090-2013
01542/CHENP/2003	India	Pending	Method and apparatus for broadcast services in a wireless communication system	ATIS.3GPP.36.300V1090-2013
1492/CHENP/2008	India	Pending	Method and apparatus for broadcast services in a wireless communication system	ATIS.3GPP.36.300V1090-2013
4773042	Japan	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.36.300V1090-2013
5524125	Japan	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.36.300V1090-2013
913339	Republic of Korea	Granted	Method and apparatus for broadcast services in a wireless communication system	ATIS.3GPP.36.300V1090-2013
258455	Mexico	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.36.300V1090-2013
20034340	Norway	Pending	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.36.300V1090-2013
2300846	Russian Federation	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
2345494	Russian Federation	Granted	Method and apparatus for overhead messaging in a wireless communication system	ATIS.3GPP.36.300V1090-2013
100286	Singapore	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
I248736	Taiwan	Granted	Method and Apparatus for Overhead Messaging in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
78507	Ukraine	Granted	Method and Apparatus for Broadcast Services in a Wireless Communication System	ATIS.3GPP.36.300V1090-2013
7,263,351	United States	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
AR040362B1	Argentina	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
2003248807	Australia	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
PI0312353-7	Brazil	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
1344-2003	Chile	Pending	System and Method for Optimizing a Wireless Network Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
ZL03815520.6	China P.R.	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
EP1518425	Germany	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
EP1518425	European Patent Convention	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
EP1518425	Great Britain	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
05109692.7	Hong Kong	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
ID0019120	Indonesia	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
165647	Israel	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013

255878	India	Granted	A method of configuring a wireless network and an apparatus for optimizing a wireless network	ATIS.3GPP.36.304V1060-2013
2004-518219	Japan	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
5027203	Japan	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
993750	Republic of Korea	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
1075039	Republic of Korea	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
253430	Mexico	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
537079	New Zealand	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
4782	Peru	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
2332812	Russian Federation	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.304V1060-2013
108745	Singapore	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
2003-001111	Venezuela	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
6740	Vietnam	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.304V1060-2013
7,263,351	United States	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
AR040362B1	Argentina	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
2003248807	Australia	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
PI0312353-7	Brazil	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
1344-2003	Chile	Pending	System and Method for Optimizing a Wireless Network Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
ZL03815520.6	China P.R.	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
EP1518425	Germany	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
EP1518425	European Patent Convention	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
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05109692.7	Hong Kong	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
ID0019120	Indonesia	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
165647	Israel	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
255878	India	Granted	A method of configuring a wireless network and an apparatus for optimizing a wireless network	ATIS.3GPP.36.331V1090-2013
2004-518219	Japan	Pending	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
5027203	Japan	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
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1075039	Republic of Korea	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
253430	Mexico	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
537079	New Zealand	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
4782	Peru	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
2332812	Russian Federation	Granted	Wireless network optimization through remote device data	ATIS.3GPP.36.331V1090-2013
108745	Singapore	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
2003-001111	Venezuela	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
6740	Vietnam	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.36.331V1090-2013
7,263,351	United States	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
AR040362B1	Argentina	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013

2003248807	Australia	Pending	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
PI0312353-7	Brazil	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
1344-2003	Chile	Pending	System and Method for Optimizing a Wireless Network Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
ZL03815520.6	China P.R.	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
EP1518425	Germany	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
EP1518425	European Patent Convention	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
EP1518425	Great Britain	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
05109692.7	Hong Kong	Pending	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
ID0019120	Indonesia	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
165647	Israel	Pending	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
255878	India	Granted	A method of configuring a wireless network and an apparatus for optimizing a wireless network	ATIS.3GPP.37.320V1040-2013
2004-518219	Japan	Pending	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
5027203	Japan	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
993750	Republic of Korea	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
1075039	Republic of Korea	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
253430	Mexico	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
537079	New Zealand	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
4782	Peru	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
2332812	Russian Federation	Granted	Wireless network optimization through remote device data	ATIS.3GPP.37.320V1040-2013
108745	Singapore	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
2003-001111	Venezuela	Pending	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
6740	Vietnam	Granted	Wireless Network Optimization Through Remote Device Data	ATIS.3GPP.37.320V1040-2013
6,980,820	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
7,415,283	United States	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
ZL02820728.9	China P.R.	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
ZL200610172826.1	China P.R.	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
ZL200610172827.6	China P.R.	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
7,689,226	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
EP1421803	Germany	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1566928	Germany	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1608187	Germany	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
EP1421803	European Patent Convention	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1566928	European Patent Convention	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013

EP1608187	European Patent Convention	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
EP1421803	Spain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1566928	Spain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1608187	Spain	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
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EP1566928	France	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1608187	France	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
EP1421803	Great Britain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1566928	Great Britain	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1608187	Great Britain	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
05102993.8	Hong Kong	Pending	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
06106601.2	Hong Kong	Pending	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
241313	India	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
EP1421803	Italy	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1566928	Italy	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
EP1608187	Italy	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
4307998	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
4927893	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
4965593	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
5628217	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
906587	Republic of Korea	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.321V1080-2013
NI-189273	Taiwan	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.321V1080-2013
7,649,829	United States	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
PI0213215-0	Brazil	Pending	Concatenated Encoding and Decoding for Multilayer Communication Protocol	T1.3GPP.25.212V3110-2003
8,713,400	United States	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
8,730,999	United States	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003

ZL02823325.5	China P.R.	Granted	Encoding and decoding methods for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
ZL201010189040.7	China P.R.	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
ZL201010189095.8	China P.R.	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP1435134	Germany	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003
EP2239856	Germany	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP2242181	Germany	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP1435134	European Patent Convention	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003
EP2239856	European Patent Convention	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP2242181	European Patent Convention	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP2239856	Spain	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP1435134	France	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003
EP2239856	France	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP1435134	Great Britain	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003
EP2239856	Great Britain	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP2242181	Great Britain	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
EP1435134	Italy	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003
EP2239856	Italy	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
4274942	Japan	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003
892891	Republic of Korea	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003
EP1435134	Netherlands	Granted	Concatenated encoding and decoding for multilayer communication protocol	T1.3GPP.25.212V3110-2003

EP2239856	Netherlands	Granted	Method and system for reduction of decoding complexity in a communication system	T1.3GPP.25.212V3110-2003
NI-193178	Taiwan	Granted	Method and System for Reduction of Decoding Complexity in a Communication System	T1.3GPP.25.212V3110-2003
7,599,334	United States	Granted	Method and apparatus for processing shared subpackets in a communication system	T1.3GPP.25.214V3120-2004
PI0213272-9	Brazil	Pending	Method for Processing Shared Sub-Packets in a Communication System	T1.3GPP.25.214V3120-2004
ZL02824057.X	China P.R.	Granted	Method for processing shared sub-packets in a communication system	T1.3GPP.25.214V3120-2004
08107407.4	Hong Kong	Pending	Method for processing shared sub-packets in a communication system	T1.3GPP.25.214V3120-2004
4278517	Japan	Granted	Method for Processing Shared Sub-Packets in a Communication System	T1.3GPP.25.214V3120-2004
941338	Republic of Korea	Granted	Method for processing shared sub-packets in a communication system	T1.3GPP.25.214V3120-2004
6,876,636	United States	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.300V1090-2013
EP1522204	Belgium	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Bulgaria	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
PI0312518-1	Brazil	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.300V1090-2013
8,243,644	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
13/494,739	United States	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
ZL03821188.2	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.300V1090-2013
200710180375.0	China P.R.	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.300V1090-2013
EP1522204	Czech Republic	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Germany	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
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EP1522204	Finland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	France	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
HK1083287	Hong Kong	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
08109487.3	Hong Kong	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Hungary	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Ireland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Italy	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
2009-180888	Japan	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
4847603	Japan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
10-0999824	Republic of Korea	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Netherlands	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Romania	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
EP1522204	Sweden	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
I358239	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
I435629	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
103106911	Taiwan	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.300V1090-2013
6,876,636	United States	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1522204	Belgium	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
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PI0312518-1	Brazil	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.331V1090-2013
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EP1522204	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
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EP1522204	France	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522204	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
HK1083287	Hong Kong	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
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EP1522204	Ireland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522204	Italy	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
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EP1522204	Romania	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522204	Sweden	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
I358239	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
I435629	Taiwan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
103106911	Taiwan	Pending	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
AR037758B1	Argentina	Granted	Handoff in a Hybrid Communication Network	ATIS.3GPP.36.331V1090-2013
CL43.401	Chile	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
ZL02827760.0	China P.R.	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
ZL200810166514.9	China P.R.	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
02804749.6	European Patent Convention	Pending	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
09010236.9	European Patent Convention	Pending	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
10013698.5	European Patent Convention	Pending	Handoff in a Hybrid Communication Network	ATIS.3GPP.36.331V1090-2013
10013697.7	European Patent Convention	Pending	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
238401	India	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
7756/CHENP/2009	India	Pending	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
4554212	Japan	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
5108054	Japan	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
10-0966004	Republic of Korea	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
10-0970090	Republic of Korea	Granted	Handoff in a hybrid communication network	ATIS.3GPP.36.331V1090-2013
MY-137476-A	Malaysia	Granted	Handoff in a Hybrid Communication Network	ATIS.3GPP.36.331V1090-2013
104735	Singapore	Granted	Handoff in a Hybrid Communication Network	ATIS.3GPP.36.331V1090-2013
078626	Thailand	Pending	Handoff in a Hybrid Communication Network	ATIS.3GPP.36.331V1090-2013
2004/04552	South Africa	Granted	Handoff in a Hybrid Communication Network	ATIS.3GPP.36.331V1090-2013
7,177,658	United States	Granted	Multi-Media Broadcast and Multicast Service (MBMS) in a Wireless Communications System	ATIS.3GPP.36.300V1090-2013
PI0311851-7	Brazil	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.300V1090-2013
7,583,977	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.36.300V1090-2013
8,451,770	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.36.300V1090-2013
ZL03815846.9	China P.R.	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013

200710086124.6	China P.R.	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013
200710086125.0	China P.R.	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013
7,593,746	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communications system	ATIS.3GPP.36.300V1090-2013
03728719.0	European Patent Convention	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.300V1090-2013
13172347.0	European Patent Convention	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.300V1090-2013
HK1082302	Hong Kong	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.300V1090-2013
08103112.9	Hong Kong	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.300V1090-2013
4508865	Japan	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013
2009-293836	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013
2014-104435	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013
10-1157232	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013
10-1058677	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.300V1090-2013
I294744	Taiwan	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communications system	ATIS.3GPP.36.300V1090-2013
7,177,658	United States	Granted	Multi-Media Broadcast and Multicast Service (MBMS) in a Wireless Communications System	ATIS.3GPP.36.440V1030-2013
PI0311851-7	Brazil	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.440V1030-2013
7,583,977	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.36.440V1030-2013
8,451,770	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communication system	ATIS.3GPP.36.440V1030-2013
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200710086124.6	China P.R.	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.440V1030-2013
200710086125.0	China P.R.	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.440V1030-2013

7,593,746	United States	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communications system	ATIS.3GPP.36.440V1030-2013
03728719.0	European Patent Convention	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.440V1030-2013
13172347.0	European Patent Convention	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.440V1030-2013
HK1082302	Hong Kong	Granted	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.440V1030-2013
08103112.9	Hong Kong	Pending	Frame Formatting, Coding and Transmit Power Control Method for a Multicast/Broadcast System	ATIS.3GPP.36.440V1030-2013
4508865	Japan	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.440V1030-2013
2009-293836	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.440V1030-2013
2014-104435	Japan	Pending	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.440V1030-2013
10-1157232	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.440V1030-2013
10-1058677	Republic of Korea	Granted	Frame formatting, coding and transmit power control method for a multicast/broadcast system	ATIS.3GPP.36.440V1030-2013
I294744	Taiwan	Granted	Multi-media broadcast and multicast service (MBMS) in a wireless communications system	ATIS.3GPP.36.440V1030-2013
7,110,377	United States	Granted	Dormant Handoff in a Packet Data Network	ATIS.3GPP.36.331V1090-2013
PI0315174-3	Brazil	Pending	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.331V1090-2013
8,023,464	United States	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.331V1090-2013
2499410	Canada	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
2761980	Canada	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
ZL200380100989.3	China P.R.	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
ZL201110257303.8	China P.R.	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
201410236118.4	China P.R.	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
EP1550339	Germany	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.331V1090-2013
EP1550339	European Patent Convention	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
EP1550339	France	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.331V1090-2013
EP1550339	Great Britain	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.331V1090-2013
ID0021857	Indonesia	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.331V1090-2013
167443	Israel	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
204093	Israel	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
219172	India	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
EP1550339	Italy	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.331V1090-2013
4472528	Japan	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
4950258	Japan	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013

1032586	Republic of Korea	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
10-1115269	Republic of Korea	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
254810	Mexico	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
292339	Mexico	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
2370920	Russian Federation	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
2517392	Russian Federation	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.331V1090-2013
I336209	Taiwan	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.331V1090-2013
I450608	Taiwan	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.331V1090-2013
85828	Ukraine	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.331V1090-2013
200812169	Ukraine	Pending	Dormant handoff in a packet data network	ATIS.3GPP.36.331V1090-2013
7,110,377	United States	Granted	Dormant Handoff in a Packet Data Network	ATIS.3GPP.36.423V1050-2013
PI0315174-3	Brazil	Pending	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.423V1050-2013
8,023,464	United States	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.423V1050-2013
2499410	Canada	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
2761980	Canada	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
ZL200380100989.3	China P.R.	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
ZL201110257303.8	China P.R.	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
201410236118.4	China P.R.	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
EP1550339	Germany	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.423V1050-2013
EP1550339	European Patent Convention	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
EP1550339	France	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.423V1050-2013
EP1550339	Great Britain	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.423V1050-2013
ID0021857	Indonesia	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.423V1050-2013
167443	Israel	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
204093	Israel	Pending	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
219172	India	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
EP1550339	Italy	Granted	Handoff in Dormant Mode in a Packet Data Network	ATIS.3GPP.36.423V1050-2013
4472528	Japan	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
4950258	Japan	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
1032586	Republic of Korea	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
10-1115269	Republic of Korea	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
254810	Mexico	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
292339	Mexico	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
2370920	Russian Federation	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
2517392	Russian Federation	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.423V1050-2013
I336209	Taiwan	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.423V1050-2013
I450608	Taiwan	Granted	Dormant handoff in a packet data network	ATIS.3GPP.36.423V1050-2013
85828	Ukraine	Granted	Handoff in dormant mode in a packet data network	ATIS.3GPP.36.423V1050-2013
200812169	Ukraine	Pending	Dormant handoff in a packet data network	ATIS.3GPP.36.423V1050-2013
6,940,917	United States	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013

PI0313817-8	Brazil	Pending	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013
7,194,040	United States	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013
2495438	Canada	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013
ZL03823584.6	China P.R.	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
ZL200910205843.4	China P.R.	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
10109101.5	Hong Kong	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
EP1552625	Germany	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013
EP1552625	European Patent Convention	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013
EP1552625	Great Britain	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013
ID0024098	Indonesia	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
IDP0025307	Indonesia	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
166524	Israel	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
248065	India	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.211V1070-2013
5021164	Japan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
4927976	Japan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
1013356	Republic of Korea	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
254433	Mexico	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
275095	Mexico	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
2328823	Russian Federation	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
2463707	Russian Federation	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013

I325249	Taiwan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
87969	Ukraine	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
200901128	Ukraine	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.211V1070-2013
6,940,917	United States	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
PI0313817-8	Brazil	Pending	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
7,194,040	United States	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
2495438	Canada	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
ZL03823584.6	China P.R.	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
ZL200910205843.4	China P.R.	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
10109101.5	Hong Kong	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
EP1552625	Germany	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
EP1552625	European Patent Convention	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
EP1552625	Great Britain	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
ID0024098	Indonesia	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
IDP0025307	Indonesia	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
166524	Israel	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
248065	India	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.212V1070-2013
5021164	Japan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
4927976	Japan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
1013356	Republic of Korea	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013

254433	Mexico	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
275095	Mexico	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
2328823	Russian Federation	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
2463707	Russian Federation	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
1325249	Taiwan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
87969	Ukraine	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
200901128	Ukraine	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.212V1070-2013
6,940,917	United States	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
PI0313817-8	Brazil	Pending	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
7,194,040	United States	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
2495438	Canada	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
ZL03823584.6	China P.R.	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
ZL200910205843.4	China P.R.	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
10109101.5	Hong Kong	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
EP1552625	Germany	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
EP1552625	European Patent Convention	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
EP1552625	Great Britain	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
ID0024098	Indonesia	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
IDP0025307	Indonesia	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
166524	Israel	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013

248065	India	Granted	Beam-Steering and Beam-Forming for Wideband MIMO/MISO Systems	ATIS.3GPP.36.213V1070-2013
5021164	Japan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
4927976	Japan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
1013356	Republic of Korea	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
254433	Mexico	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
275095	Mexico	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
2328823	Russian Federation	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
2463707	Russian Federation	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
1325249	Taiwan	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
87969	Ukraine	Granted	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
200901128	Ukraine	Pending	Beam-steering and beam-forming for wideband MIMO/MISO systems	ATIS.3GPP.36.213V1070-2013
7,720,079	United States	Granted	Data transfer procedure for transferring data of a data sequence between a transmitting entity and a receiving entity	ATIS.3GPP.36.323V1020-2013
PI0316980-4	Brazil	Pending	A Data Transfer Procedure for Transferring Data of a Data Sequence Between a Transmitting Entity and a Receiving Entity	ATIS.3GPP.36.323V1020-2013
2396088	Great Britain	Granted	A Data Transfer Procedure for Transferring Data of a Data Sequence Between a Transmitting Entity and a Receiving Entity	ATIS.3GPP.36.323V1020-2013
1068036	Hong Kong	Granted	A Data Transfer Procedure for Transferring Data of a Data Sequence Between a Transmitting Entity and a Receiving Entity	ATIS.3GPP.36.323V1020-2013
169004	Israel	Pending	A data transfer procedure for transferring data of a sata sequence between a transmitting entity and a receiving entity	ATIS.3GPP.36.323V1020-2013
222368	India	Granted	A data transfer method for transferring data between a transmitting and a receiving entity	ATIS.3GPP.36.323V1020-2013
10-1027703	Republic of Korea	Granted	A data transfer procedure for transferring data of a data sequence between a transmitting entity and a receiving entity	ATIS.3GPP.36.323V1020-2013
113678	Singapore	Granted	A Data Transfer Procedure for Transferring Data of a Data Sequence Between a Transmitting Entity and a Receiving Entity	ATIS.3GPP.36.323V1020-2013
8,320,301	United States	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1582032	Belgium	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Belgium	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013

EP1582032	Bulgaria	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Bulgaria	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
PI0315677-0	Brazil	Pending	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
2500355	Canada	Pending	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
ZL200380104560.1	China P.R.	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
200710193839.1	China P.R.	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
08108244.9	Hong Kong	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
ZL200710193841.9	China P.R.	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
08108239.6	Hong Kong	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
ZL200710193838.7	China P.R.	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
08108243.0	Hong Kong	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	Czech Republic	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Czech Republic	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
12/112,728	United States	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
14/458,933	United States	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
12/112,789	United States	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
8,462,643	United States	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	Germany	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1619817	Germany	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1615384	Germany	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1956756	Germany	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	European Patent Convention	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1619817	European Patent Convention	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1615384	European Patent Convention	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1956756	European Patent Convention	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
10174926.5	European Patent Convention	Pending	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
10174932.3	European Patent Convention	Pending	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
10180324.5	European Patent Convention	Pending	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1582032	Spain	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1619817	Spain	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1615384	Spain	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1956756	Spain	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	Finland	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Finland	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	France	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1619817	France	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1615384	France	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1956756	France	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	Great Britain	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1619817	Great Britain	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1615384	Great Britain	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013

EP1956756	Great Britain	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
HK1086125	Hong Kong	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
HK1091618	Hong Kong	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
HK1091615	Hong Kong	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
09100970.5	Hong Kong	Pending	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1582032	Hungary	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Hungary	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
IDP0024067	Indonesia	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	Ireland	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Ireland	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
167378	Israel	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
204179	Israel	Pending	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
204180	Israel	Pending	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
220587	India	Granted	A method of transmitting signalling information in a wireless multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.211V1070-2013
EP1582032	Italy	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1619817	Italy	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1615384	Italy	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1956756	Italy	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
4943654	Japan	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
10-1064012	Republic of Korea	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
266860	Mexico	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
296038	Mexico	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1582032	Netherlands	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Netherlands	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	Romania	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Romania	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
2335852	Russian Federation	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
2485699	Russian Federation	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
2485697	Russian Federation	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
2485698	Russian Federation	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
EP1582032	Sweden	Granted	MIMO WLAN System	ATIS.3GPP.36.211V1070-2013
EP1615384	Sweden	Granted	MIMO WLAN system	ATIS.3GPP.36.211V1070-2013
I330043	Taiwan	Granted	MIMO WLAN System and method of transmitting signaling information in the same	ATIS.3GPP.36.211V1070-2013
89611	Ukraine	Granted	Method and apparatus of transmitting and receiving signalling information in a wireless communication system (variants)	ATIS.3GPP.36.211V1070-2013
8,320,301	United States	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1582032	Belgium	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Belgium	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Bulgaria	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013

EP1615384	Bulgaria	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
PI0315677-0	Brazil	Pending	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
2500355	Canada	Pending	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
ZL200380104560.1	China P.R.	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
200710193839.1	China P.R.	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
08108244.9	Hong Kong	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
ZL200710193841.9	China P.R.	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
08108239.6	Hong Kong	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
ZL200710193838.7	China P.R.	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
08108243.0	Hong Kong	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Czech Republic	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Czech Republic	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
12/112,728	United States	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
14/458,933	United States	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
12/112,789	United States	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
8,462,643	United States	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Germany	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1619817	Germany	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1615384	Germany	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1956756	Germany	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	European Patent Convention	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1619817	European Patent Convention	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1615384	European Patent Convention	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1956756	European Patent Convention	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
10174926.5	European Patent Convention	Pending	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
10174932.3	European Patent Convention	Pending	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
10180324.5	European Patent Convention	Pending	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1582032	Spain	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1619817	Spain	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1615384	Spain	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1956756	Spain	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Finland	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Finland	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	France	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1619817	France	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1615384	France	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1956756	France	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Great Britain	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1619817	Great Britain	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1615384	Great Britain	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1956756	Great Britain	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013

HK1086125	Hong Kong	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
HK1091618	Hong Kong	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
HK1091615	Hong Kong	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
09100970.5	Hong Kong	Pending	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1582032	Hungary	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Hungary	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
IDP0024067	Indonesia	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Ireland	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Ireland	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
167378	Israel	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
204179	Israel	Pending	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
204180	Israel	Pending	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
220587	India	Granted	A method of transmitting signalling information in a wireless multiple-input multiple-output (MIMO) communication system	ATIS.3GPP.36.321V1080-2013
EP1582032	Italy	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1619817	Italy	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1615384	Italy	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1956756	Italy	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
4943654	Japan	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
10-1064012	Republic of Korea	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
266860	Mexico	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
296038	Mexico	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1582032	Netherlands	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Netherlands	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Romania	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Romania	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
2335852	Russian Federation	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
2485699	Russian Federation	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
2485697	Russian Federation	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
2485698	Russian Federation	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
EP1582032	Sweden	Granted	MIMO WLAN System	ATIS.3GPP.36.321V1080-2013
EP1615384	Sweden	Granted	MIMO WLAN system	ATIS.3GPP.36.321V1080-2013
I330043	Taiwan	Granted	MIMO WLAN System and method of transmitting signaling information in the same	ATIS.3GPP.36.321V1080-2013
89611	Ukraine	Granted	Method and apparatus of transmitting and receiving signalling information in a wireless communication system (variants)	ATIS.3GPP.36.321V1080-2013
8,090,577	United States	Granted	Bandwidth-adaptive quantization	ATIS.3GPP.26.290V1100-2014
PI0313317-6	Brazil	Pending	Bandwidth-Adaptive Quantization	ATIS.3GPP.26.290V1100-2014
EP1535277	Germany	Granted	Bandwidth-adaptive quantization	ATIS.3GPP.26.290V1100-2014
EP1535277	European Patent Convention	Granted	Bandwidth-adaptive quantization	ATIS.3GPP.26.290V1100-2014
EP1535277	France	Granted	Bandwidth-adaptive quantization	ATIS.3GPP.26.290V1100-2014

EP1535277	Great Britain	Granted	Bandwidth-adaptive quantization	ATIS.3GPP.26.290V1100-2014
05109708.9	Hong Kong	Pending	Bandwidth-Adaptive Quantization	ATIS.3GPP.26.290V1100-2014
220954	India	Granted	A bandwidth adaptive vector quantizer and method for reducing a bit rate of a vocoder	ATIS.3GPP.26.290V1100-2014
2004-527978	Japan	Pending	Bandwidth-Adaptive Quantization	ATIS.3GPP.26.290V1100-2014
5280480	Japan	Granted	Bandwidth-adaptive quantization	ATIS.3GPP.26.290V1100-2014
1081781	Republic of Korea	Granted	Bandwidth-adaptive quantization	ATIS.3GPP.26.290V1100-2014
200500705-9	Singapore	Pending	Bandwidth-Adaptive Quantization	ATIS.3GPP.26.290V1100-2014
7,796,631	United States	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Austria	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Belgium	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
PI0312510-6	Brazil	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1522203	Switzerland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
ZL03819727.8	China P.R.	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
ZL200710180374.6	China P.R.	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.331V1090-2013
EP1522203	Germany	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1793642	Germany	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Denmark	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1793642	European Patent Convention	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Spain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Finland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	France	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013

EP1793642	Great Britain	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Greece	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
06102838.6	Hong Kong	Pending	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.331V1090-2013
08108616.9	Hong Kong	Pending	Method and system for multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Hungary	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Ireland	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Italy	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
4727986	Japan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
5174138	Japan	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
10-1056743	Republic of Korea	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Netherlands	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Portugal	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Romania	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
EP1522203	Sweden	Granted	Method and system for a multicast service initiation in a communication system	ATIS.3GPP.36.331V1090-2013
I321281	Taiwan	Granted	Method and System for a Multicast Service Initiation in a Communication System	ATIS.3GPP.36.331V1090-2013
6,928,062	United States	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Austria	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Austria	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Austria	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2003287286	Australia	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013

EP1563696	Belgium	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Belgium	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Belgium	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI0315788-1	Brazil	Pending	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
7,042,857	United States	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
8,724,555	United States	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
14/162,127	United States	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2501473	Canada	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Switzerland	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Switzerland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Switzerland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
ZL200380102367.4	China P.R.	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
201010106823.4	China P.R.	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
11103037.6	Hong Kong	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
ZL201010106882.1	China P.R.	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
HK1149666	Hong Kong	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Germany	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Germany	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Germany	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Denmark	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013

EP2378700	Denmark	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Denmark	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	European Patent Convention	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	European Patent Convention	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	European Patent Convention	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Spain	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Spain	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Spain	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Finland	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Finland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Finland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	France	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	France	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	France	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Great Britain	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Great Britain	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Great Britain	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Greece	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Greece	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Greece	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013

1085337	Hong Kong	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Hungary	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Hungary	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Hungary	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Ireland	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Ireland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Ireland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
167573	Israel	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
201872	Israel	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
220069	India	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
258205	India	Granted	A method for transmitting pilots from an access terminal to an access point	ATIS.3GPP.36.211V1070-2013
254204	India	Granted	A method for assigning pilot signals for transmission	ATIS.3GPP.36.211V1070-2013
EP1563696	Italy	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Italy	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Italy	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
5122746	Japan	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
5265505	Japan	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2013-029073	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2009-279345	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2013-029107	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2014-211783	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013

973955	Republic of Korea	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1019004	Republic of Korea	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1019005	Republic of Korea	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
260534	Mexico	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Netherlands	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Netherlands	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Netherlands	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Norway	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
1-2005-500721	Philippines	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Portugal	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Portugal	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Portugal	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Romania	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Romania	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Romania	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2373666	Russian Federation	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2413390	Russian Federation	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1563696	Sweden	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2378700	Sweden	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP2378701	Sweden	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013

112285	Singapore	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
I365001	Taiwan	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
099135630	Taiwan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
I437837	Taiwan	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2005/02668	South Africa	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.211V1070-2013
6,928,062	United States	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Austria	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Austria	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Austria	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2003287286	Australia	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Belgium	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Belgium	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Belgium	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
PI0315788-1	Brazil	Pending	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
7,042,857	United States	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
8,724,555	United States	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
14/162,127	United States	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2501473	Canada	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Switzerland	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Switzerland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013

EP2378701	Switzerland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
ZL200380102367.4	China P.R.	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
201010106823.4	China P.R.	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
11103037.6	Hong Kong	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
ZL201010106882.1	China P.R.	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
HK1149666	Hong Kong	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Germany	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Germany	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Germany	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Denmark	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Denmark	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Denmark	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	European Patent Convention	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	European Patent Convention	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	European Patent Convention	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Spain	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Spain	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Spain	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Finland	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Finland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013

EP2378701	Finland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	France	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	France	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	France	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Great Britain	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
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EP2378701	Great Britain	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
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EP2378701	Greece	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
1085337	Hong Kong	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Hungary	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Hungary	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Hungary	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Ireland	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Ireland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Ireland	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
167573	Israel	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
201872	Israel	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
220069	India	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013

258205	India	Granted	A method for transmitting pilots from an access terminal to an access point	ATIS.3GPP.36.213V1070-2013
254204	India	Granted	A method for assigning pilot signals for transmission	ATIS.3GPP.36.213V1070-2013
EP1563696	Italy	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Italy	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Italy	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
5122746	Japan	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
5265505	Japan	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2013-029073	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2009-279345	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2013-029107	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2014-211783	Japan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
973955	Republic of Korea	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
1019004	Republic of Korea	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
1019005	Republic of Korea	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
260534	Mexico	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Netherlands	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
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EP2378701	Netherlands	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Norway	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
1-2005-500721	Philippines	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Portugal	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013

EP2378700	Portugal	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Portugal	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Romania	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
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EP2378701	Romania	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2373666	Russian Federation	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2413390	Russian Federation	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1563696	Sweden	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP2378700	Sweden	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP2378701	Sweden	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
112285	Singapore	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
I365001	Taiwan	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
099135630	Taiwan	Pending	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
I437837	Taiwan	Granted	Uplink pilot and signaling transmission in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2005/02668	South Africa	Granted	Uplink Pilot and Signaling Transmission in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
8,213,390	United States	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
2003287292	Australia	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
PI0315559-5	Brazil	Pending	Reverse Link Automatic Repeat Request	T1.3GPP.25.211V3120-2003
2501919	Canada	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
ZL200380102096.2	China P.R.	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
201010157077.1	China P.R.	Pending	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
03781526.3	European Patent Convention	Pending	Reverse Link Automatic Repeat Request	T1.3GPP.25.211V3120-2003
06102939.4	Hong Kong	Pending	Reverse Link Automatic Repeat Request	T1.3GPP.25.211V3120-2003
IDP0024684	Indonesia	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
167790	Israel	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003

226656	India	Granted	Method and apparatus for automatic repeat request in a wireless communication system	T1.3GPP.25.211V3120-2003
5053513	Japan	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
2010-166164	Japan	Pending	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
2014-105631	Japan	Pending	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
10-1038265	Republic of Korea	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
270179	Mexico	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
2347319	Russian Federation	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
I339515	Taiwan	Granted	Reverse Link Automatic Repeat Request	T1.3GPP.25.211V3120-2003
84278	Ukraine	Granted	Reverse Link Automatic Repeat Request	T1.3GPP.25.211V3120-2003
7,564,818	United States	Granted	Reverse Link Automatic Repeat Request	T1.3GPP.25.211V3120-2003
8,116,283	United States	Granted	Reverse link automatic repeat request	T1.3GPP.25.211V3120-2003
7,095,790	United States	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
PI0407786-5	Brazil	Pending	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
7,606,326	United States	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
2517207	Canada	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
CL44.230	Chile	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
ZL200480007865.5	China P.R.	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
HK1086403	Hong Kong	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
EP1597884	Germany	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
EP1597884	European Patent Convention	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
EP1597884	Spain	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
EP1597884	France	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
EP1597884	Great Britain	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
170682	Israel	Pending	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
246975	India	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013

EP1597884	Italy	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
4833830	Japan	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
10-0867258	Republic of Korea	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
257104	Mexico	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
EP1597884	Netherlands	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
2354064	Russian Federation	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
114353	Singapore	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
I350079	Taiwan	Granted	Transmission Schemes for Multi-Antenna Communication Systems Utilizing Multi-Carrier Modulation	ATIS.3GPP.36.211V1070-2013
6948	Vietnam	Granted	Transmission schemes for multi-antenna communication systems utilizing multi-carrier modulation	ATIS.3GPP.36.211V1070-2013
7,477,618	United States	Granted	Method and Apparatus for Stealing Power or Code for Data Channel Operations	T1.3GPP.25.211V3120-2003
ZL200380102067.6	China P.R.	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.211V3120-2003
03778004.6	European Patent Convention	Pending	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	T1.3GPP.25.211V3120-2003
224495	India	Granted	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	T1.3GPP.25.211V3120-2003
4741236	Japan	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.211V3120-2003
10-1056002	Republic of Korea	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.211V3120-2003
7,477,618	United States	Granted	Method and Apparatus for Stealing Power or Code for Data Channel Operations	T1.3GPP.25.213V390-2004
ZL200380102067.6	China P.R.	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.213V390-2004
03778004.6	European Patent Convention	Pending	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	T1.3GPP.25.213V390-2004
224495	India	Granted	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	T1.3GPP.25.213V390-2004
4741236	Japan	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.213V390-2004

10-1056002	Republic of Korea	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.213V390-2004
7,477,618	United States	Granted	Method and Apparatus for Stealing Power or Code for Data Channel Operations	T1.3GPP.25.214V3120-2004
ZL200380102067.6	China P.R.	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.214V3120-2004
03778004.6	European Patent Convention	Pending	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	T1.3GPP.25.214V3120-2004
224495	India	Granted	Method for Stealing Power or Walsh-Code for a Data Channel (e.g. Shared Data Channel) from a Dedicated Channel (e.g. Voice Channel)	T1.3GPP.25.214V3120-2004
4741236	Japan	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.214V3120-2004
10-1056002	Republic of Korea	Granted	Method for stealing power or walsh-code for a data channel (e.g. shared data channel) from a dedicated channel (e.g. voice channel)	T1.3GPP.25.214V3120-2004
7,986,742	United States	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
EP1556985	Austria	Granted	Pilots for MIMO Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2363970	Austria	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
EP1556985	Belgium	Granted	Pilots for MIMO Communication Systems	ATIS.3GPP.36.211V1070-2013
EP2363970	Belgium	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
PI0315536-6	Brazil	Pending	Pilots for MIMO Communication Systems	ATIS.3GPP.36.211V1070-2013
13/155,916	United States	Pending	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
2501634	Canada	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
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EP2363970	Switzerland	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
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ZL200810009601.3	China P.R.	Granted	Method of generating pilots in a wireless MIMO communication system	ATIS.3GPP.36.211V1070-2013
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EP2363970	Germany	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
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EP2363970	Great Britain	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
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EP2363970	Greece	Granted	Pilots for MIMO communication systems	ATIS.3GPP.36.211V1070-2013
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ZL200810009601.3	China P.R.	Granted	Method of generating pilots in a wireless MIMO communication system	T1.3GPP.25.211V3120-2003
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ZL200810009601.3	China P.R.	Granted	Method of generating pilots in a wireless MIMO communication system	T1.3GPP.25.213V390-2004
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EP1570579	Germany	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
EP1570579	European Patent Convention	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
10168347.2	European Patent Convention	Pending	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013

10168345.6	European Patent Convention	Pending	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
EP1570579	Spain	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
EP1570579	France	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
EP1570579	Great Britain	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
HK1082328	Hong Kong	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
167299	Israel	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
226653	India	Granted	Method and apparatus for transmission in a multiple-input multiple-output communication system	ATIS.3GPP.36.211V1070-2013
EP1570579	Italy	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
4965127	Japan	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
5474847	Japan	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
5474848	Japan	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
10-1131405	Republic of Korea	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
1160856	Republic of Korea	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
10-1076255	Republic of Korea	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
251256	Mexico	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
538660	New Zealand	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
2348105	Russian Federation	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
2487475	Russian Federation	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
2524357	Russian Federation	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
2530992	Russian Federation	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.211V1070-2013
I323986	Taiwan	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.211V1070-2013
6,873,606	United States	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
PI0315308-8	Brazil	Pending	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
7,675,886	United States	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
8,619,717	United States	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
2500175	Canada	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
ZL200380100757.8	China P.R.	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
ZL200910141086.9	China P.R.	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
10109193.4	Hong Kong	Pending	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
EP1570579	Germany	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
EP1570579	European Patent Convention	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
10168347.2	European Patent Convention	Pending	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
10168345.6	European Patent Convention	Pending	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
EP1570579	Spain	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
EP1570579	France	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
EP1570579	Great Britain	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
HK1082328	Hong Kong	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
167299	Israel	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
226653	India	Granted	Method and apparatus for transmission in a multiple-input multiple-output communication system	ATIS.3GPP.36.212V1070-2013

EP1570579	Italy	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
4965127	Japan	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
5474847	Japan	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
5474848	Japan	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
10-1131405	Republic of Korea	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
1160856	Republic of Korea	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
10-1076255	Republic of Korea	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
251256	Mexico	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
538660	New Zealand	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
2348105	Russian Federation	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
2487475	Russian Federation	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
2524357	Russian Federation	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
2530992	Russian Federation	Granted	Rate adaptive transmission scheme for MIMO systems	ATIS.3GPP.36.212V1070-2013
1323986	Taiwan	Granted	Rate Adaptive Transmission Scheme for MIMO Systems	ATIS.3GPP.36.212V1070-2013
7,925,203	United States	Granted	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.26.346V1140-2014
PI0406882-3	Brazil	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.26.346V1140-2014
13/034,591	United States	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.26.346V1140-2014
200480004398.0	China P.R.	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.26.346V1140-2014
201210023638.8	China P.R.	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.26.346V1140-2014
04704474.8	European Patent Convention	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.26.346V1140-2014
06105999.4	Hong Kong	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.26.346V1140-2014
169737	Israel	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.26.346V1140-2014
227144	India	Granted	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.26.346V1140-2014
2006-501115	Japan	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.26.346V1140-2014
2010-224242	Japan	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.26.346V1140-2014
2011-137191	Japan	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.26.346V1140-2014
10-1057533	Republic of Korea	Granted	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.26.346V1140-2014

260941	Mexico	Granted	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.26.346V1140-2014
7,925,203	United States	Granted	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.33.246V1110-2014
PI0406882-3	Brazil	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.33.246V1110-2014
13/034,591	United States	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.33.246V1110-2014
200480004398.0	China P.R.	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.33.246V1110-2014
201210023638.8	China P.R.	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.33.246V1110-2014
04704474.8	European Patent Convention	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.33.246V1110-2014
06105999.4	Hong Kong	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.33.246V1110-2014
169737	Israel	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.33.246V1110-2014
227144	India	Granted	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.33.246V1110-2014
2006-501115	Japan	Pending	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.33.246V1110-2014
2010-224242	Japan	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.33.246V1110-2014
2011-137191	Japan	Pending	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.33.246V1110-2014
10-1057533	Republic of Korea	Granted	System and Method for Controlling Broadcast Multimedia Using Plural Wireless Network Connections	ATIS.3GPP.33.246V1110-2014
260941	Mexico	Granted	System and method for controlling broadcast multimedia using plural wireless network connections	ATIS.3GPP.33.246V1110-2014
7,280,467	United States	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
PI0406644-8	Brazil	Pending	Pilot Transmission Schemes for Wireless Multi-Carrier Communication Systems	ATIS.3GPP.36.211V1070-2013
2512551	Canada	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
ZL200480004741.1	China P.R.	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
ZL200910139518.2	China P.R.	Granted	Pilot transmission method and apparatus for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013

10106217.2	Hong Kong	Pending	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
EP1582042	Germany	Granted	Pilot transmission schemes for wireless multicarrier communication systems	ATIS.3GPP.36.211V1070-2013
EP1582042	European Patent Convention	Granted	Pilot transmission schemes for wireless multicarrier communication systems	ATIS.3GPP.36.211V1070-2013
10012069.0	European Patent Convention	Pending	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
10012070.8	European Patent Convention	Pending	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
11108172.0	Hong Kong	Pending	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
EP1582042	Great Britain	Granted	Pilot transmission schemes for wireless multicarrier communication systems	ATIS.3GPP.36.211V1070-2013
06106133.9	Hong Kong	Pending	Pilot Transmission Schemes for Wireless Multi-Carrier Communication Systems	ATIS.3GPP.36.211V1070-2013
IDP0022781	Indonesia	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
169509	Israel	Pending	Pilot Transmission Schemes for Wireless Multi-Carrier Communication Systems	ATIS.3GPP.36.211V1070-2013
222671	India	Granted	A method and apparatus for processing pilots received via a downlink in a wireless multi carrier communication system	ATIS.3GPP.36.211V1070-2013
2006-500830	Japan	Pending	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
5341052	Japan	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
2013-097793	Japan	Pending	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
10-0978453	Republic of Korea	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
257362	Mexico	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
2368088	Russian Federation	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
2507699	Russian Federation	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
I324453	Taiwan	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
90244	Ukraine	Granted	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013

200910700	Ukraine	Pending	Pilot transmission schemes for wireless multi-carrier communication systems	ATIS.3GPP.36.211V1070-2013
8,165,148	United States	Granted	System and method for rate assignment	ATIS.3GPP.36.321V1080-2013
PI0406730-4	Brazil	Pending	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.321V1080-2013
2513015	Canada	Granted	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.321V1080-2013
ZL200480002149.8	China P.R.	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.321V1080-2013
UNKNOWN	China P.R.	Pending	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.321V1080-2013
04701539.1	European Patent Convention	Pending	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.321V1080-2013
06105145.7	Hong Kong	Pending	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.321V1080-2013
220017	India	Granted	Method of scheduling in a wireless communication system	ATIS.3GPP.36.321V1080-2013
4494411	Japan	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.321V1080-2013
4856230	Japan	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.321V1080-2013
10-1041758	Republic of Korea	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.321V1080-2013
2348118	Russian Federation	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.321V1080-2013
I381680	Taiwan	Granted	System and Method for a Time-Scalable Priority-Based Scheduler	ATIS.3GPP.36.321V1080-2013
8,165,148	United States	Granted	System and method for rate assignment	ATIS.3GPP.36.331V1090-2013
PI0406730-4	Brazil	Pending	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.331V1090-2013

2513015	Canada	Granted	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.331V1090-2013
ZL200480002149.8	China P.R.	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.331V1090-2013
UNKNOWN	China P.R.	Pending	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.331V1090-2013
04701539.1	European Patent Convention	Pending	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.331V1090-2013
06105145.7	Hong Kong	Pending	Method, Station and Medium Storing a Program for a Priority Based Scheduler with Variable Scheduling Periods and Variable Scheduled Periods	ATIS.3GPP.36.331V1090-2013
220017	India	Granted	Method of scheduling in a wireless communication system	ATIS.3GPP.36.331V1090-2013
4494411	Japan	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.331V1090-2013
4856230	Japan	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.331V1090-2013
10-1041758	Republic of Korea	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.331V1090-2013
2348118	Russian Federation	Granted	Method, station and medium storing a program for a priority based scheduler with variable scheduling periods and variable scheduled periods	ATIS.3GPP.36.331V1090-2013
1381680	Taiwan	Granted	System and Method for a Time-Scalable Priority-Based Scheduler	ATIS.3GPP.36.331V1090-2013
7,062,272	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.36.331V1090-2013
2004213997	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
2009225369	Australia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
PI0407539-0	Brazil	Pending	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.36.331V1090-2013
7,409,212	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.36.331V1090-2013
2516223	Canada	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013

ZL200480007389.7	China P.R.	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
7,251,487	United States	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.36.331V1090-2013
7,813,732	United States	Granted	Method and apparatus to track count of broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
EP1595412	European Patent Convention	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
10009463.0	European Patent Convention	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
11109246.0	Hong Kong	Pending	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
EP1595412	Great Britain	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
HK1090228	Hong Kong	Granted	Method and Apparatus to Count Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.36.331V1090-2013
ID0021577	Indonesia	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
170231	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
203708	Israel	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
230641	India	Granted	Method and apparatus to track count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
4376898	Japan	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
10-1087523	Republic of Korea	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
256703	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
273333	Mexico	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
2346412	Russian Federation	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
I368449	Taiwan	Granted	Method and Apparatus to Track Count of Broadcast Content Recipients in a Wireless Telephone Network	ATIS.3GPP.36.331V1090-2013
91492	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013
101955	Ukraine	Granted	Method and apparatus to count broadcast content recipients in a wireless telephone network	ATIS.3GPP.36.331V1090-2013

7,979,078	United States	Granted	Apparatus, system, and method for managing reverse link communication resources in a distributed communication system	ATIS.3GPP.36.300V1090-2013
ZL200480016902.9	China P.R.	Granted	System and Method for Managing Reverse Link Communication Resources in a Distributed Communication System and Corresponding Apparatus	ATIS.3GPP.36.300V1090-2013
ZL200810184440.1	China P.R.	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.300V1090-2013
7,197,319	United States	Granted	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.300V1090-2013
8,000,717	United States	Granted	Apparatus, system, and method for managing reverse link communication resources in a distributed communication system	ATIS.3GPP.36.300V1090-2013
04755273.2	European Patent Convention	Pending	System and Method for Managing Reverse Link Communication Resources in a Distributed Communication System and Corresponding Apparatus	ATIS.3GPP.36.300V1090-2013
HK1093395	Hong Kong	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.300V1090-2013
4713470	Japan	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.300V1090-2013
5032640	Japan	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.300V1090-2013
10-1105609	Republic of Korea	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.300V1090-2013
I375475	Taiwan	Granted	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.300V1090-2013
101121213	Taiwan	Pending	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.300V1090-2013
7,979,078	United States	Granted	Apparatus, system, and method for managing reverse link communication resources in a distributed communication system	ATIS.3GPP.36.420V1020-2013
ZL200480016902.9	China P.R.	Granted	System and Method for Managing Reverse Link Communication Resources in a Distributed Communication System and Corresponding Apparatus	ATIS.3GPP.36.420V1020-2013
ZL200810184440.1	China P.R.	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.420V1020-2013
7,197,319	United States	Granted	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.420V1020-2013

8,000,717	United States	Granted	Apparatus, system, and method for managing reverse link communication resources in a distributed communication system	ATIS.3GPP.36.420V1020-2013
04755273.2	European Patent Convention	Pending	System and Method for Managing Reverse Link Communication Resources in a Distributed Communication System and Corresponding Apparatus	ATIS.3GPP.36.420V1020-2013
HK1093395	Hong Kong	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.420V1020-2013
4713470	Japan	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.420V1020-2013
5032640	Japan	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.420V1020-2013
10-1105609	Republic of Korea	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.420V1020-2013
I375475	Taiwan	Granted	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.420V1020-2013
101121213	Taiwan	Pending	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.420V1020-2013
7,979,078	United States	Granted	Apparatus, system, and method for managing reverse link communication resources in a distributed communication system	ATIS.3GPP.36.423V1050-2013
ZL200480016902.9	China P.R.	Granted	System and Method for Managing Reverse Link Communication Resources in a Distributed Communication System and Corresponding Apparatus	ATIS.3GPP.36.423V1050-2013
ZL200810184440.1	China P.R.	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.423V1050-2013
7,197,319	United States	Granted	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.423V1050-2013
8,000,717	United States	Granted	Apparatus, system, and method for managing reverse link communication resources in a distributed communication system	ATIS.3GPP.36.423V1050-2013
04755273.2	European Patent Convention	Pending	System and Method for Managing Reverse Link Communication Resources in a Distributed Communication System and Corresponding Apparatus	ATIS.3GPP.36.423V1050-2013
HK1093395	Hong Kong	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.423V1050-2013

4713470	Japan	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.423V1050-2013
5032640	Japan	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.423V1050-2013
10-1105609	Republic of Korea	Granted	System and method for managing reverse link communication resources in a distributed communication system and corresponding apparatus	ATIS.3GPP.36.423V1050-2013
I375475	Taiwan	Granted	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.423V1050-2013
101121213	Taiwan	Pending	Apparatus, System, and Method for Managing Reverse Link Communication Resources in a Distributed Communication System	ATIS.3GPP.36.423V1050-2013
7,280,562	United States	Granted	Variable Packet Lengths for High Packet Data Rate Communications	ATIS.3GPP.36.321V1080-2013
PI0407546-3	Brazil	Pending	Variable Packet Lengths for High Packet Data Rate Communications	ATIS.3GPP.36.321V1080-2013
2516384	Canada	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
ZL200480006541.X	China P.R.	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
EP1597879	Germany	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
EP1597879	European Patent Convention	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
EP1597879	Spain	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
EP1597879	France	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
EP1597879	Great Britain	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
06106025.0	Hong Kong	Pending	Variable Packet Lengths for High Packet Data Rate Communications	ATIS.3GPP.36.321V1080-2013
UNKNOWN	Indonesia	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
170332	Israel	Pending	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
1959/CHENP/2005	India	Pending	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
155/CHENP/2008	India	Pending	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
EP1597879	Italy	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
4537382	Japan	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
4550940	Japan	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
4787366	Japan	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
10-1098351	Republic of Korea	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
256011	Mexico	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
2341903	Russian Federation	Granted	Variable packet lengths for high packet data rate communications	ATIS.3GPP.36.321V1080-2013
I332332	Taiwan	Granted	Variable Packet Lengths for High Packet Data Rate Communications	ATIS.3GPP.36.321V1080-2013
200508827	Ukraine	Pending	Variable Packet Lengths for High Packet Data Rate Communications	ATIS.3GPP.36.321V1080-2013
7,505,780	United States	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Austria	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
2004214794	Australia	Pending	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
2010201396	Australia	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Belgium	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003

PI0407545-5	Brazil	Pending	Outer-Loop Power Control for Wireless Communication Systems	T1.3GPP.25.211V3120-2003
2516231	Canada	Granted	Outer-Loop Power Control for Wireless Communication Systems	T1.3GPP.25.211V3120-2003
EP1595414	Switzerland	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
ZL200480007387.8	China P.R.	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Germany	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Denmark	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	European Patent Convention	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Spain	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Finland	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	France	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Great Britain	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Greece	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
06110362.3	Hong Kong	Pending	Outer-Loop Power Control for Wireless Communication Systems	T1.3GPP.25.211V3120-2003
EP1595414	Hungary	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Ireland	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
170228	Israel	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
233724	India	Granted	A method for controlling power in a wireless communication system having multiple reverse-link communication channels	T1.3GPP.25.211V3120-2003
EP1595414	Italy	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
4694470	Japan	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
1022679	Republic of Korea	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
260532	Mexico	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Netherlands	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Portugal	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
EP1595414	Romania	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
2005129080	Russian Federation	Pending	Outer-Loop Power Control for Wireless Communication Systems	T1.3GPP.25.211V3120-2003
EP1595414	Sweden	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
I375479	Taiwan	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.211V3120-2003
7,505,780	United States	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
EP1595414	Austria	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
2004214794	Australia	Pending	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
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EP1595414	Belgium	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
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ZL200480007387.8	China P.R.	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
EP1595414	Germany	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
EP1595414	Denmark	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
EP1595414	European Patent Convention	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
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EP1595414	Italy	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.213V390-2004
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7,505,780	United States	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
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PI0407545-5	Brazil	Pending	Outer-Loop Power Control for Wireless Communication Systems	T1.3GPP.25.214V3120-2004
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EP1595414	Switzerland	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
ZL200480007387.8	China P.R.	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
EP1595414	Germany	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
EP1595414	Denmark	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
EP1595414	European Patent Convention	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
EP1595414	Spain	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
EP1595414	Finland	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
EP1595414	France	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
EP1595414	Great Britain	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
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EP1595414	Ireland	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004
170228	Israel	Granted	Outer-loop power control for wireless communication systems	T1.3GPP.25.214V3120-2004

233724	India	Granted	A method for controlling power in a wireless communication system having multiple reverse-link communication channels	T1.3GPP.25.214V3120-2004
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7,155,236	United States	Granted	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.36.321V1080-2013
2004213994	Australia	Pending	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.321V1080-2013
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PI0407571-4	Brazil	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.36.321V1080-2013
2516296	Canada	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.36.321V1080-2013
200480009878.6	China P.R.	Pending	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.321V1080-2013
200910222199.1	China P.R.	Pending	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.321V1080-2013
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8,526,966	United States	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.321V1080-2013
13/627,634	United States	Pending	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.321V1080-2013
04712339.3	European Patent Convention	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.36.321V1080-2013
10179019.4	European Patent Convention	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.36.321V1080-2013
06107217.6	Hong Kong	Pending	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.36.321V1080-2013
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I394381	Taiwan	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.321V1080-2013
86761	Ukraine	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.321V1080-2013
7,155,236	United States	Granted	Scheduled and Autonomous Transmission and Acknowledgement	ATIS.3GPP.36.331V1090-2013
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I394381	Taiwan	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.331V1090-2013
86761	Ukraine	Granted	Scheduled and autonomous transmission and acknowledgement	ATIS.3GPP.36.331V1090-2013
10/801,624	United States	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
P040104800	Argentina	Pending	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.211V1070-2013
EP1665602	Belgium	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Bulgaria	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
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CL45.159	Chile	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
ZL200480032553.X	China P.R.	Granted	Method and apparatus for incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
ZL201010283447.6	China P.R.	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
ZL201010283449.5	China P.R.	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Czech Republic	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013

EP1665602	Germany	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	European Patent Convention	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1959600	European Patent Convention	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
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EP1959600	Romania	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1959600	Sweden	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
09174530.7	European Patent Convention	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
10106722.0	Hong Kong	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
09174529.9	European Patent Convention	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
10106721.1	Hong Kong	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Spain	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Finland	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	France	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Great Britain	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
08107171.8	Hong Kong	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
HK1125756	Hong Kong	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Hungary	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013

EP1665602	Ireland	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
174142	Israel	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
235287	India	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Italy	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
4741495	Japan	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
5204152	Japan	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
5280404	Japan	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
10-1285901	Republic of Korea	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
10-1280734	Republic of Korea	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
2010-7013874	Republic of Korea	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
279725	Mexico	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Netherlands	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
1-2006-500502	Philippines	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Poland	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1665602	Romania	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
2369021	Russian Federation	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
2502197	Russian Federation	Granted	H-ARQ for MIMO systems	ATIS.3GPP.36.211V1070-2013
EP1665602	Sweden	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
120356	Singapore	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
I353129	Taiwan	Granted	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.211V1070-2013
I426724	Taiwan	Granted	Methods and apparatuses for sending an incremental redundancy transmission in a mimo communication system	ATIS.3GPP.36.211V1070-2013

I427947	Taiwan	Granted	H-ARQ for MIMO Systems	ATIS.3GPP.36.211V1070-2013
1-2006-00560	Vietnam	Pending	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.211V1070-2013
10/801,624	United States	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
P040104800	Argentina	Pending	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.212V1070-2013
EP1665602	Belgium	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1665602	Bulgaria	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
PI0414188-1	Brazil	Pending	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.212V1070-2013
2538057	Canada	Granted	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.212V1070-2013
CL45.159	Chile	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
ZL200480032553.X	China P.R.	Granted	Method and apparatus for incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
ZL201010283447.6	China P.R.	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
ZL201010283449.5	China P.R.	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1665602	Czech Republic	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1665602	Germany	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1665602	European Patent Convention	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	European Patent Convention	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Belgium	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Bulgaria	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Czech Republic	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Germany	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Spain	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Finland	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	France	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Great Britain	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Hungary	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Ireland	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Italy	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013

EP1959600	Netherlands	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Poland	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Romania	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
EP1959600	Sweden	Granted	Iterative detection and decoding in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
09174530.7	European Patent Convention	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
10106722.0	Hong Kong	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
09174529.9	European Patent Convention	Pending	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
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EP1665602	Romania	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
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EP1665602	Sweden	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
120356	Singapore	Granted	Incremental redundancy transmission in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
I353129	Taiwan	Granted	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.212V1070-2013
I426724	Taiwan	Granted	Methods and apparatuses for sending an incremental redundancy transmission in a mimo communication system	ATIS.3GPP.36.212V1070-2013
I427947	Taiwan	Granted	H-ARQ for MIMO Systems	ATIS.3GPP.36.212V1070-2013
1-2006-00560	Vietnam	Pending	Incremental Redundancy Transmission in a MIMO Communication System	ATIS.3GPP.36.212V1070-2013
8,150,407	United States	Granted	System and method for scheduling transmissions in a wireless communication system	ATIS.3GPP.36.321V1080-2013
7,127,655	United States	Granted	Methods and Apparatus to Optimize Delivery of Multicast Content Using Probabilistic Feedback	ATIS.3GPP.26.346V1140-2014
ZL200480042506.3	China P.R.	Granted	Methods and appartus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014
07104849.8	Hong Kong	Pending	Methods and apparatus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014
238075	India	Granted	Methods and apparatus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014
2006-551067	Japan	Pending	Methods and apparatus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014

2009-125235	Japan	Pending	Methods and apparatus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014
2010-223970	Japan	Pending	Methods and apparatus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014
839267	Republic of Korea	Granted	Methods and apparatus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014
093140320	Taiwan	Pending	Methods and Apparatus to Optimize Delivery of Multicast Content Using Probabilistic Feedback	ATIS.3GPP.26.346V1140-2014
2006/05982	South Africa	Granted	Methods and apparatus to optimize delivery of multicast content using probabilistic feedback	ATIS.3GPP.26.346V1140-2014
10/725,904	United States	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0417069-5	Brazil	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2547112	Canada	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200480041108.X	China P.R.	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PCT499/2006	Egypt	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
04801075.5	European Patent Convention	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07105374.8	Hong Kong	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00200601506	Indonesia	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
175904	Israel	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
3106/DELNP/2006	India	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
4409576	Japan	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
4658216	Japan	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
834356	Republic of Korea	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
279597	Mexico	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
20063055	Norway	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013

547514	New Zealand	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
565722	New Zealand	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2006-501078	Philippines	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2009-502173	Philippines	Pending	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2332802	Russian Federation	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2446596	Russian Federation	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
122688	Singapore	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200808900-5	Singapore	Pending	Method and Apparatus for Providing an Efficient Control Channel Structure in a Wireless Communication System	ATIS.3GPP.36.213V1070-2013
I355169	Taiwan	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
86218	Ukraine	Granted	Method, apparatus and machine-readable medium for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8645	Vietnam	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2006/04370	South Africa	Granted	Method and apparatus for providing an efficient control channel structure in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,208,364	United States	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
EP1559231	Belgium	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
EP1559231	Bulgaria	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
PI0315535-8	Brazil	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
12/649,040	United States	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
13/857,025	United States	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
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ZL201010119891.4	China P.R.	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
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EP1559231	Czech Republic	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
8,355,313	United States	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
8,483,188	United States	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
EP1559231	Germany	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
EP2061173	Germany	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
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EP2061173	European Patent Convention	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
09110568.2	Hong Kong	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
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10180147.0	European Patent Convention	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
EP1559231	Spain	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
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EP1559231	France	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
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EP1559231	Hungary	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
IDP0026085	Indonesia	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
W-00200903353	Indonesia	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
EP1559231	Ireland	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
167576	Israel	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
202714	Israel	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
219184	India	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
EP1559231	Italy	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.212V1070-2013
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09110568.2	Hong Kong	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
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10180147.0	European Patent Convention	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Spain	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP2061173	Spain	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Finland	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	France	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP2061173	France	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Great Britain	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP2061173	Great Britain	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
06104069.2	Hong Kong	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Hungary	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
IDP0026085	Indonesia	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
W-00200903353	Indonesia	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Ireland	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
167576	Israel	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
202714	Israel	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
219184	India	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Italy	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP2061173	Italy	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
4860924	Japan	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
5043979	Japan	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
10-0965347	Republic of Korea	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
266207	Mexico	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
302514	Mexico	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Netherlands	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP2061173	Netherlands	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
EP1559231	Romania	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
2330381	Russian Federation	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
2477001	Russian Federation	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013

EP1559231	Sweden	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
I335155	Taiwan	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
099105740	Taiwan	Pending	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
83201	Ukraine	Granted	MIMO system with multiple spatial multiplexing modes	ATIS.3GPP.36.213V1070-2013
7,002,900	United States	Granted	Transmit Diversity Processing for a Multi-Antenna Communication System	ATIS.3GPP.36.211V1070-2013
2003284943	Australia	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
2009201783	Australia	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
PI0315520-0	Brazil	Pending	Transmit Diversity Processing for a Multi-Antenna Communication System	ATIS.3GPP.36.211V1070-2013
11/250,353	United States	Pending	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
8,873,365	United States	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
2501449	Canada	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
ZL200380104554.6	China P.R.	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
EP1556983	Germany	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
EP1556983	European Patent Convention	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
EP1556983	Great Britain	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
HK1086123	Hong Kong	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
ID0020215	Indonesia	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
167572	Israel	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
222354	India	Granted	Transmit Diversity Processing for a Multi-Antenna Communication System	ATIS.3GPP.36.211V1070-2013
4739952	Japan	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
5199324	Japan	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
10-1073331	Republic of Korea	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013

254977	Mexico	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
277203	Mexico	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
2321951	Russian Federation	Granted	Transmit Diversity Processing for a Multi-Antenna Communication System	ATIS.3GPP.36.211V1070-2013
I339057	Taiwan	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
83473	Ukraine	Granted	Transmit diversity processing for a multi-antenna communication system	ATIS.3GPP.36.211V1070-2013
11/079,539	United States	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
ZL200680014896.2	China P.R.	Granted	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
201210562628.1	China P.R.	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
13109576.8	Hong Kong	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
06737925.5	European Patent Convention	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
13150104.1	European Patent Convention	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
13150106.6	European Patent Convention	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
247648	India	Granted	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
5384095	Japan	Granted	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
5175327	Japan	Granted	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
2012-145708	Japan	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
2012-149372	Japan	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
10-1232532	Republic of Korea	Granted	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
095108056	Taiwan	Pending	Method and apparatus for automatic configuration of wireless communication networks	ATIS.3GPP.36.300V1090-2013
7,339,999	United States	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013

PI0418430-0	Brazil	Pending	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
8,537,908	United States	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
8,027,399	United States	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
2553746	Canada	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
CL43.757	Chile	Granted	A method and apparatus for estimating a frequency response of a wireless channel in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200480042520.3	China P.R.	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
201310308289.9	China P.R.	Pending	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
04813292.2	European Patent Convention	Pending	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
10175260.8	European Patent Convention	Pending	Pilot Transmission and Channel Estimation for an OFDM System with Excess Delay Spread	ATIS.3GPP.36.211V1070-2013
08101893.8	Hong Kong	Pending	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
176989	Israel	Pending	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
239938	India	Granted	A method and apparatus of estimating a frequency response of a wireless channel in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2006-551061	Japan	Pending	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
5080598	Japan	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
831126	Republic of Korea	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
261384	Mexico	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
1-2006-501415	Philippines	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
2348120	Russian Federation	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
124137	Singapore	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
097045	Thailand	Pending	Pilot Transmission and Channel Estimation for an OFDM System with Excess Delay Spread	ATIS.3GPP.36.211V1070-2013

I353147	Taiwan	Granted	Pilot Transmission and Channel Estimation for an OFDM System with Excess Delay Spread	ATIS.3GPP.36.211V1070-2013
7738	Vietnam	Granted	Pilot transmission and channel estimation for an OFDM system with excess delay spread	ATIS.3GPP.36.211V1070-2013
7,318,187	United States	Granted	Outer Coding Methods for Broadcast/Multicast Content and Related Apparatus	ATIS.3GPP.36.300V1090-2013
PI0413698-5	Brazil	Pending	Outer Coding Methods for Broadcast/Multicast Content and Related Apparatus	ATIS.3GPP.36.300V1090-2013
2539399	Canada	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
ZL200480030786.6	China P.R.	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
ZL201010224860.5	China P.R.	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
8,171,381	United States	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
8,175,090	United States	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
8,291,300	United States	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
04781831.5	European Patent Convention	Pending	Outer Coding Methods for Broadcast/Multicast Content and Related Apparatus	ATIS.3GPP.36.300V1090-2013
HK1094114	Hong Kong	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
236488	India	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
3088/CHENP/2009	India	Pending	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
4768615	Japan	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
5054171	Japan	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
5054170	Japan	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
10-1142215	Republic of Korea	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
265275	Mexico	Granted	Outer coding methods for broadcast/multicast content and related apparatus	ATIS.3GPP.36.300V1090-2013
I407793	Taiwan	Granted	Outer coding methods, outer coding entity, and origination station for broadcast/multicast content	ATIS.3GPP.36.300V1090-2013
7,315,527	United States	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003

EP1661427	Belgium	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
PI0413292-0	Brazil	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
2534827	Canada	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
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ZL200910178280.4	China P.R.	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
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EP1784044	European Patent Convention	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
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EP2003922	Finland	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
EP1661427	France	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
EP1784044	France	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
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EP1661427	Great Britain	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
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07111111.4	Hong Kong	Pending	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
09105337.2	Hong Kong	Pending	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
EP2003922	Hungary	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
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173519	Israel	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
241831	India	Granted	An apparatus and a method for acknowledgement	T1.3GPP.25.211V3120-2003
EP1661427	Italy	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
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4870560	Japan	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003
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10-1120308	Republic of Korea	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
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2376728	Russian Federation	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
2494572	Russian Federation	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
EP2003922	Sweden	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
I376968	Taiwan	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.211V3120-2003

90456	Ukraine	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.211V3120-2003
7,315,527	United States	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
EP1661427	Belgium	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
PI0413292-0	Brazil	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
2534827	Canada	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
ZL200480026624.5	China P.R.	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
ZL200910178280.4	China P.R.	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
10108532.6	Hong Kong	Pending	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
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EP2003922	Finland	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
EP1661427	France	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
EP1784044	France	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
EP2003922	France	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
EP1661427	Great Britain	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
EP1784044	Great Britain	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
EP2003922	Great Britain	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
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09105337.2	Hong Kong	Pending	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
EP2003922	Hungary	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
ID0022014B	Indonesia	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
173519	Israel	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
241831	India	Granted	An apparatus and a method for acknowledgement	T1.3GPP.25.212V3110-2003
EP1661427	Italy	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
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4870560	Japan	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
10-1192573	Republic of Korea	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
10-1120308	Republic of Korea	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
264064	Mexico	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
EP2003922	Netherlands	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
2376728	Russian Federation	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
2494572	Russian Federation	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003

EP2003922	Sweden	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
I376968	Taiwan	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.212V3110-2003
90456	Ukraine	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.212V3110-2003
7,315,527	United States	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
EP1661427	Belgium	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
PI0413292-0	Brazil	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
2534827	Canada	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
ZL200480026624.5	China P.R.	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
ZL200910178280.4	China P.R.	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
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EP1661427	Germany	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
EP1784044	Germany	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
EP2003922	Germany	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
EP1661427	European Patent Convention	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
EP1784044	European Patent Convention	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
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EP1661427	Spain	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
EP1784044	Spain	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
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EP2003922	Great Britain	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
07111111.4	Hong Kong	Pending	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
09105337.2	Hong Kong	Pending	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
EP2003922	Hungary	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
ID0022014B	Indonesia	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
173519	Israel	Pending	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
241831	India	Granted	An apparatus and a method for acknowledgement	T1.3GPP.25.213V390-2004
EP1661427	Italy	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
EP1784044	Italy	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
EP2003922	Italy	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
4870560	Japan	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
10-1192573	Republic of Korea	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
10-1120308	Republic of Korea	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
264064	Mexico	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
EP2003922	Netherlands	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004

2376728	Russian Federation	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
2494572	Russian Federation	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
EP2003922	Sweden	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
I376968	Taiwan	Granted	Extended Acknowledgement and Rate Control Channel	T1.3GPP.25.213V390-2004
90456	Ukraine	Granted	Extended acknowledgement and rate control channel	T1.3GPP.25.213V390-2004
7,630,731	United States	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
2004303394	Australia	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
2007200167	Australia	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
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PI0414159-8	Brazil	Pending	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
7,720,501	United States	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
8,463,310	United States	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
2537441	Canada	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.213V390-2004
ZL200480031838.1	China P.R.	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
ZL200710079410.X	China P.R.	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.213V390-2004
EP1665580	Czech Republic	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
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EP1993216	European Patent Convention	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
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HK1096497	Hong Kong	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
HK1105507	Hong Kong	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.213V390-2004
EP1665580	Hungary	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
EP1993216	Hungary	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
IDP0024336	Indonesia	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
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EP1993216	Ireland	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
173982	Israel	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
253366	India	Granted	A method and apparatus for managing resource of a communication link	T1.3GPP.25.213V390-2004
253369	India	Granted	A method and apparatus for managing resource of a communication link	T1.3GPP.25.213V390-2004
EP1665580	Italy	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004

EP1993216	Italy	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
4658051	Japan	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
5074573	Japan	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
10-1056972	Republic of Korea	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
855532	Republic of Korea	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
259699	Mexico	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
277839	Mexico	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
EP1665580	Netherlands	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
EP1993216	Netherlands	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
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EP1665580	Romania	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
EP1993216	Romania	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
2368078	Russian Federation	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
2485684	Russian Federation	Granted	Method and apparatus for traffic-to-pilot management for code division multiple access (CDMA) reverse link	T1.3GPP.25.213V390-2004
EP1665580	Sweden	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
EP1993216	Sweden	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
I381664	Taiwan	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.213V390-2004
89760	Ukraine	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.213V390-2004
98773	Ukraine	Granted	Method and apparatus for traffic-to-pilot management for code division multiple access (CDMA) reverse link	T1.3GPP.25.213V390-2004

7,630,731	United States	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
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7,720,501	United States	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
8,463,310	United States	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
2537441	Canada	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.214V3120-2004
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ZL200710079410.X	China P.R.	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.214V3120-2004
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EP1993216	Czech Republic	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
EP1665580	Germany	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
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EP1665580	European Patent Convention	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
EP1993216	European Patent Convention	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
EP1665580	Spain	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004

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HK1105507	Hong Kong	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.214V3120-2004
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173982	Israel	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
253366	India	Granted	A method and apparatus for managing resource of a communication link	T1.3GPP.25.214V3120-2004
253369	India	Granted	A method and apparatus for managing resource of a communication link	T1.3GPP.25.214V3120-2004
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EP1993216	Italy	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
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10-1056972	Republic of Korea	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
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EP1993216	Poland	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
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EP1993216	Romania	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
2368078	Russian Federation	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
2485684	Russian Federation	Granted	Method and apparatus for traffic-to-pilot management for code division multiple access (CDMA) reverse link	T1.3GPP.25.214V3120-2004
EP1665580	Sweden	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
EP1993216	Sweden	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
I381664	Taiwan	Granted	Apparatus, System, and Method for Managing Reverse Link Communication	T1.3GPP.25.214V3120-2004
89760	Ukraine	Granted	Apparatus, system, and method for managing reverse link communication	T1.3GPP.25.214V3120-2004
98773	Ukraine	Granted	Method and apparatus for traffic-to-pilot management for code division multiple access (CDMA) reverse link	T1.3GPP.25.214V3120-2004
7,957,263	United States	Granted	Method and apparatus for acknowledging reverse link transmissions in a communications system	ATIS.3GPP.36.211V1070-2013
PI0414158-0	Brazil	Pending	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	ATIS.3GPP.36.211V1070-2013

2537443	Canada	Granted	Method and apparatus for acknowledging reverse link transmissions in a communications system	ATIS.3GPP.36.211V1070-2013
200480025719.5	China P.R.	Pending	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	ATIS.3GPP.36.211V1070-2013
201410366652.7	China P.R.	Pending	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	ATIS.3GPP.36.211V1070-2013
EP1665617	Germany	Granted	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	ATIS.3GPP.36.211V1070-2013
EP1665617	European Patent Convention	Granted	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	ATIS.3GPP.36.211V1070-2013
EP1665617	Great Britain	Granted	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	ATIS.3GPP.36.211V1070-2013
07103071.9	Hong Kong	Pending	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communications System	ATIS.3GPP.36.211V1070-2013
237014	India	Granted	A method for acknowledging reverse link transmission and reducing cross talk between channels	ATIS.3GPP.36.211V1070-2013
4668908	Japan	Granted	Method and apparatus for acknowledging reverse link transmissions in a communications system	ATIS.3GPP.36.211V1070-2013
5080625	Japan	Granted	Method and Apparatus for Acknowledging Reverse Link Transmissions in a Communication System	ATIS.3GPP.36.211V1070-2013
954513	Republic of Korea	Granted	Method and apparatus for acknowledging reverse link transmissions in a communications system	ATIS.3GPP.36.211V1070-2013
282637	Mexico	Granted	Method and apparatus for acknowledging reverse link transmissions in a communications system	ATIS.3GPP.36.211V1070-2013
I369094	Taiwan	Granted	Method and apparatus for acknowledging reverse link transmissions in a communication system	ATIS.3GPP.36.211V1070-2013
7,912,485	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
2004271649	Australia	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
2010241197	Australia	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
PI0406400-3	Brazil	Pending	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.331V1090-2013
8,644,862	United States	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
2504537	Canada	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.331V1090-2013
ZL200480001400.9	China P.R.	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.331V1090-2013
EP1665857	European Patent Convention	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
10009638.7	European Patent Convention	Pending	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
11108028.6	Hong Kong	Pending	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
HK1097679	Hong Kong	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013

W-00200501208	Indonesia	Pending	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.331V1090-2013
168020	Israel	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.331V1090-2013
237531	India	Granted	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.331V1090-2013
4546475	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
4856259	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
5562915	Japan	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
1148801	Republic of Korea	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
10-1205757	Republic of Korea	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
277354	Mexico	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
2371885	Russian Federation	Granted	Method and system for signaling in broadcast communication system	ATIS.3GPP.36.331V1090-2013
200504393	Ukraine	Pending	Method and System for Signaling in Broadcast Communication System	ATIS.3GPP.36.331V1090-2013
7,613,144	United States	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
PI0415005-8	Brazil	Pending	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
2540833	Canada	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
ZL200480035726.3	China P.R.	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
ZL201010267676.9	China P.R.	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
EP1678978	Germany	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
EP1678978	European Patent Convention	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
EP1678978	Spain	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
EP1678978	France	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
EP1678978	Great Britain	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
07101850.0	Hong Kong	Pending	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
IDP0023796	Indonesia	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
174616	Israel	Pending	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013

222810	India	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
EP1678978	Italy	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
4382817	Japan	Granted	Systems and methods for multiplexing control data For multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
823904	Republic of Korea	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
265273	Mexico	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.212V1070-2013
2328834	Russian Federation	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
I378738	Taiwan	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.212V1070-2013
83256	Ukraine	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel (variants)	ATIS.3GPP.36.212V1070-2013
7,613,144	United States	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
PI0415005-8	Brazil	Pending	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
2540833	Canada	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
ZL200480035726.3	China P.R.	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
ZL201010267676.9	China P.R.	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
EP1678978	Germany	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
EP1678978	European Patent Convention	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
EP1678978	Spain	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
EP1678978	France	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
EP1678978	Great Britain	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
07101850.0	Hong Kong	Pending	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
IDP0023796	Indonesia	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013

174616	Israel	Pending	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
222810	India	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
EP1678978	Italy	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
4382817	Japan	Granted	Systems and methods for multiplexing control data For multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
823904	Republic of Korea	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
265273	Mexico	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel	ATIS.3GPP.36.213V1070-2013
2328834	Russian Federation	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
I378738	Taiwan	Granted	Systems and Methods for Multiplexing Control Data For Multiple Data Channels onto a Single Control Channel	ATIS.3GPP.36.213V1070-2013
83256	Ukraine	Granted	Systems and methods for multiplexing control data for multiple data channels onto a single control channel (variants)	ATIS.3GPP.36.213V1070-2013
7,474,643	United States	Granted	Systems and Methods for Communicating Control data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Belgium	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Bulgaria	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
PI0415006-6	Brazil	Pending	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
8,023,474	United States	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
2540877	Canada	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
ZL200480032378.4	China P.R.	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
201010234522.X	China P.R.	Pending	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Czech Republic	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Germany	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	European Patent Convention	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013

09008575.4	European Patent Convention	Pending	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
10010902.4	European Patent Convention	Pending	Systems and method for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
10010908.1	European Patent Convention	Pending	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Spain	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Finland	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	France	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Great Britain	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
07105115.2	Hong Kong	Pending	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Hungary	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Ireland	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
174617	Israel	Pending	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
237026	India	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Italy	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
4409574	Japan	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
851426	Republic of Korea	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
265546	Mexico	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Netherlands	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Poland	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
EP1678979	Romania	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
2367119	Russian Federation	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013

EP1678979	Sweden	Granted	Systems and Methods for Communicating Control Data Using Multiple Slot Formats	ATIS.3GPP.36.211V1070-2013
I358221	Taiwan	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
85200	Ukraine	Granted	Systems and methods for communicating control data using multiple slot formats	ATIS.3GPP.36.211V1070-2013
8,204,149	United States	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
PI0417675-8	Brazil	Pending	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
13/526,160	United States	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
14/523,450	United States	Pending	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
2549093	Canada	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
ZL200480041803.6	China P.R.	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
EP1695477	Germany	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
EP1695477	European Patent Convention	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
EP1695477	Spain	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
EP1695477	France	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
EP1695477	Great Britain	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
07104802.3	Hong Kong	Pending	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
176234	Israel	Pending	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
3426/DELNP/2006	India	Pending	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
EP1695477	Italy	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
4607901	Japan	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
10-1019280	Republic of Korea	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
10-0977357	Republic of Korea	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
10-0977356	Republic of Korea	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
267629	Mexico	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
295781	Mexico	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
1-2006-501201	Philippines	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
2331984	Russian Federation	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
123273	Singapore	Granted	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
I394396	Taiwan	Granted	Spatial Spreading in a Multi-Antenna Communication System	ATIS.3GPP.36.101V10100-2013
1-2006-01176	Vietnam	Pending	Spatial spreading in a multi-antenna communication system	ATIS.3GPP.36.101V10100-2013
7,457,231	United States	Granted	Staggered Pilot Transmission for Channel Estimation and Time Tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Belgium	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Bulgaria	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
2565527	Canada	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013

2699640	Canada	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
1014-2005	Chile	Pending	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
ZL200580022669.X	China P.R.	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Czech Republic	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
7,907,593	United States	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Germany	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	European Patent Convention	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
09153505.4	European Patent Convention	Pending	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Spain	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Finland	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	France	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Great Britain	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
07112267.4	Hong Kong	Pending	Staggered pilot transmission channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Hungary	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Ireland	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
254530	India	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Italy	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
5048481	Japan	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
5080546	Japan	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
5474728	Japan	Granted	Pilot Staggering Patterns for Channel Estimation and Time Tracking in OFDM Systems	ATIS.3GPP.36.211V1070-2013
10-0878430	Republic of Korea	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013

10-0925909	Republic of Korea	Granted	Staggering pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Netherlands	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Poland	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Romania	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
EP1745618	Sweden	Granted	Staggered pilot transmission for channel estimation and time tracking	ATIS.3GPP.36.211V1070-2013
099996	Thailand	Pending	Staggered Pilot Transmission for Channel Estimation and Time Tracking	ATIS.3GPP.36.211V1070-2013
I361600	Taiwan	Granted	Staggered Pilot Transmission for Channel Estimation and Time Tracking	ATIS.3GPP.36.211V1070-2013
7,421,277	United States	Granted	Method and Apparatus for Performing Position Determination with a Short Circuit Call Flow	ATIS.3GPP.24.080V1100-2014
PI0507432-0	Brazil	Pending	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.080V1100-2014
177311	Israel	Granted	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.080V1100-2014
222175	India	Granted	A method of performing position determination in a network and an apparatus thereof	ATIS.3GPP.24.080V1100-2014
1322/MUMNP/2008	India	Pending	A method of performing position determination in a network and an apparatus thereof	ATIS.3GPP.24.080V1100-2014
10-0877250	Republic of Korea	Granted	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.080V1100-2014
135187	Singapore	Granted	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.080V1100-2014
8,144,735	United States	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
PI0507538-6	Brazil	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
2555642	Canada	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
2715189	Canada	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
2715085	Canada	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
ZL200580012210.1	China P.R.	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013

EP1714523	Germany	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
EP1714523	European Patent Convention	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
10157655.1	European Patent Convention	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
EP1714523	Spain	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
EP1714523	France	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
EP1714523	Great Britain	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
07107100.5	Hong Kong	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
UNKNOWN	Indonesia	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
177379	Israel	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
235153	India	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
870/MUMNP/2009	India	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
EP1714523	Italy	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
4705048	Japan	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
823903	Republic of Korea	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
10-1019944	Republic of Korea	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
10-1044588	Republic of Korea	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
262008	Mexico	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
295577	Mexico	Granted	Multimedia broadcast/multicast service (MBMS) notification and counting procedures	ATIS.3GPP.36.101V10100-2013
EP1714523	Netherlands	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
549092	New Zealand	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013

572032	New Zealand	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
572033	New Zealand	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
572034	New Zealand	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
2340121	Russian Federation	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
2475993	Russian Federation	Granted	Multimedia Broadcast/Multicast Service (MBMS) Notification and Counting Procedures	ATIS.3GPP.36.101V10100-2013
I351844	Taiwan	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
90854	Ukraine	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
200813479	Ukraine	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.101V10100-2013
8,144,735	United States	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
PI0507538-6	Brazil	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
2555642	Canada	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
2715189	Canada	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
2715085	Canada	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
ZL200580012210.1	China P.R.	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
EP1714523	Germany	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
EP1714523	European Patent Convention	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
10157655.1	European Patent Convention	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
EP1714523	Spain	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
EP1714523	France	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
EP1714523	Great Britain	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013

07107100.5	Hong Kong	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
UNKNOWN	Indonesia	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
177379	Israel	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
235153	India	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
870/MUMNP/2009	India	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
EP1714523	Italy	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
4705048	Japan	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
823903	Republic of Korea	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
10-1019944	Republic of Korea	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
10-1044588	Republic of Korea	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
262008	Mexico	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
295577	Mexico	Granted	Multimedia broadcast/multicast service (MBMS) notification and counting procedures	ATIS.3GPP.36.331V1090-2013
EP1714523	Netherlands	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
549092	New Zealand	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
572032	New Zealand	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
572033	New Zealand	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
572034	New Zealand	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
2340121	Russian Federation	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
2475993	Russian Federation	Granted	Multimedia Broadcast/Multicast Service (MBMS) Notification and Counting Procedures	ATIS.3GPP.36.331V1090-2013
I351844	Taiwan	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013

90854	Ukraine	Granted	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
200813479	Ukraine	Pending	Transmission of signaling information for broadcast and multicast services	ATIS.3GPP.36.331V1090-2013
11/072,743	United States	Pending	System and methods for back-off and clipping control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Belgium	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Bulgaria	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
2558544	Canada	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
ZL200580014116.X	China P.R.	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
201210154198.X	China P.R.	Pending	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Czech Republic	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
12/106,960	United States	Pending	Systems and methods for back-off and clipping control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Germany	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP2104296	Germany	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP2247059	Germany	Granted	Method and apparatus for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	European Patent Convention	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP2104296	European Patent Convention	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP2247059	European Patent Convention	Granted	Method and apparatus for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Spain	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP2247059	Spain	Granted	Method and apparatus for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Finland	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	France	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013

EP2104296	France	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP2247059	France	Granted	Method and apparatus for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Great Britain	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP2104296	Great Britain	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP2247059	Great Britain	Granted	Method and apparatus for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
07110501.4	Hong Kong	Pending	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Hungary	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Ireland	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
262161	India	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Italy	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP2247059	Italy	Granted	Method and apparatus for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
4938644	Japan	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
5356453	Japan	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
823779	Republic of Korea	Granted	System and method for power control in wireless communication systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Netherlands	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Poland	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Romania	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
EP1730916	Sweden	Granted	System and Method for Power Control in Wireless Communication Systems	ATIS.3GPP.36.101V10100-2013
8,521,139	United States	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Belgium	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Bulgaria	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
PI0507590-4	Brazil	Pending	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
200580010560.4	China P.R.	Pending	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003

EP1721485	Czech Republic	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Germany	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP2207370	Germany	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	European Patent Convention	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP2207370	European Patent Convention	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
11154868.1	European Patent Convention	Pending	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
11100415.4	Hong Kong	Pending	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Spain	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Finland	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	France	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Great Britain	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP2207370	Great Britain	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
07109686.3	Hong Kong	Pending	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Hungary	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Ireland	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
228234	India	Granted	Method and apparatus for transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
1441/MUMNP/2008	India	Pending	Reduction of false alarm in the context of a multimedia broadcast/multicast service (MBMS)	T1.3GPP.25.211V3120-2003
EP1721485	Italy	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
4943864	Japan	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
5410360	Japan	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
832175	Republic of Korea	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
270705	Mexico	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Netherlands	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Poland	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Romania	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
EP1721485	Sweden	Granted	Transmission of notifications for broadcast and multicast services	T1.3GPP.25.211V3120-2003
7,974,359	United States	Granted	Methods and apparatus for mitigating multi-antenna correlation effect in communication systems	ATIS.3GPP.36.211V1070-2013
P050105456	Argentina	Pending	Methods and Apparatus for Mitigating Multi-Antenna Correlation Effect in Communication Systems	ATIS.3GPP.36.211V1070-2013
ZL200580046967.2	China P.R.	Granted	Methods and apparatus for mitigating multi-antenna correlation effect in communication systems	ATIS.3GPP.36.211V1070-2013
05855271.2	European Patent Convention	Pending	Methods and Apparatus for Mitigating Multi-Antenna Correlation Effect in Communication Systems	ATIS.3GPP.36.211V1070-2013
08102441.3	Hong Kong	Pending	Methods and apparatus for mitigating multi-antenna correlation effect in communication systems	ATIS.3GPP.36.211V1070-2013
5152/DELNP/2007	India	Pending	Methods and apparatus for mitigating multi-antenna correlation effect in communication systems	ATIS.3GPP.36.211V1070-2013

4965458	Japan	Granted	Methods and apparatus for mitigating multi-antenna correlation effect in communication systems	ATIS.3GPP.36.211V1070-2013
10-0933154	Republic of Korea	Granted	Methods and apparatus for mitigating multi-antenna correlation effect in communication systems	ATIS.3GPP.36.211V1070-2013
094145716	Taiwan	Pending	Methods and apparatus for mitigating multi-antenna correlation effect in communication systems	ATIS.3GPP.36.211V1070-2013
8,027,372	United States	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
AR049928	Argentina	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Austria	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2005264973	Australia	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Belgium	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0512123-0	Brazil	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2570748	Canada	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2742640	Canada	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Switzerland	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1477-2005	Chile	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Germany	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247057	Germany	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247058	Germany	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Denmark	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	European Patent Convention	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10172424.3	European Patent Convention	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247057	European Patent Convention	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247058	European Patent Convention	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Spain	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247058	Spain	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Finland	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	France	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247058	France	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Great Britain	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247057	Great Britain	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013

EP2247058	Great Britain	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Greece	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1107880	Hong Kong	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Hungary	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Ireland	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
179984	Israel	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
210873	Israel	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
7603/DELNP/2006	India	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Italy	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247058	Italy	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
4763692	Japan	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5634737	Japan	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-150972	Japan	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
899316	Republic of Korea	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
945701	Republic of Korea	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
273337	Mexico	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 20052744	Malaysia	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Netherlands	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2006-502569	Philippines	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Poland	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Portugal	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Romania	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2395170	Russian Federation	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2444841	Russian Federation	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1766913	Sweden	Granted	Method and apparatus for signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
101532	Thailand	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2007-00119	Vietnam	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,068,530	United States	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,452,316	United States	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013

2005262562	Australia	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
2009201506	Australia	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
2011203332	Australia	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
2011265406	Australia	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Belgium	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Bulgaria	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
PI0512129-9	Brazil	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
2570345	Canada	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
2744953	Canada	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
1475-2005	Chile	Pending	Method and apparatus for performing a power control for a wireless terminal in a wireless communication system, the method comprising the steps of obtaining an interference indication observed by the base station and adjusting the transmission power based on the obtained indication Formerly - Power Control for a Wireless Communication System Utilizing Orthogonal Multiplexing	ATIS.3GPP.36.213V1070-2013
ZL200580028053.3	China P.R.	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Czech Republic	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
8,543,152	United States	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
8,478,202	United States	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Germany	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP2003793	Germany	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP2110960	Germany	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013

EP1766805	European Patent Convention	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP2003793	European Patent Convention	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP2110960	European Patent Convention	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
09105383.5	Hong Kong	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
10103792.2	Hong Kong	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Spain	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Finland	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	France	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Great Britain	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP2003793	Great Britain	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP2110960	Great Britain	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
08101889.4	Hong Kong	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Hungary	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
IDP0023897	Indonesia	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Ireland	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
180124	Israel	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
212980	Israel	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
212981	Israel	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
212983	Israel	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
259937	India	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013

EP1766805	Italy	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
4616339	Japan	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
5318789	Japan	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
5543532	Japan	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
10-0914562	Republic of Korea	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
10-0953259	Republic of Korea	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
273897	Mexico	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
MX/a/2009/009014	Mexico	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
295570	Mexico	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Netherlands	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
20070271	Norway	Pending	Power Control for a Wireless Communication System Utilizing Orthogonal Multiplexing	ATIS.3GPP.36.213V1070-2013
552152	New Zealand	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
588133	New Zealand	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
588135	New Zealand	Pending	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
1-2006-502576	Philippines	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Poland	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
EP1766805	Romania	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
2349033	Russian Federation	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
128252	Singapore	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
I386089	Taiwan	Granted	Power control using erasure techniques	ATIS.3GPP.36.213V1070-2013

101102289	Taiwan	Pending	Method and apparatus of performing power control for a wireless terminal in a wireless communication system and non transitory computer-readable medium	ATIS.3GPP.36.213V1070-2013
101102292	Taiwan	Pending	Power control utilizing erasure techniques	ATIS.3GPP.36.213V1070-2013
86242	Ukraine	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
1-2007-00122	Vietnam	Pending	Power Control for a Wireless Communication System Utilizing Orthogonal Multiplexing	ATIS.3GPP.36.213V1070-2013
2007/00177	South Africa	Granted	Power control for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.213V1070-2013
7,724,777	United States	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
2005264977	Australia	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
PI0512127-2	Brazil	Pending	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
8,228,949	United States	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
2571106	Canada	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
1474-2005	Chile	Pending	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
ZL200580027552.0	China P.R.	Granted	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.211V1070-2013
PCT1226/2006	Egypt	Pending	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
D1PCT1226/2006	Egypt	Pending	Multiplexing for a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
05759186.9	European Patent Convention	Pending	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.211V1070-2013
12177785.8	European Patent Convention	Pending	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
HK1104703	Hong Kong	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
ID0025881	Indonesia	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
180123	Israel	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
259412	India	Granted	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.211V1070-2013
4791459	Japan	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
5175317	Japan	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
871815	Republic of Korea	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
269264	Mexico	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
MY-145503-A	Malaysia	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
20070242	Norway	Pending	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.211V1070-2013
552150	New Zealand	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
1-2006-502570	Philippines	Granted	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.211V1070-2013
2357364	Russian Federation	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
128250	Singapore	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
I362194	Taiwan	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013

90680	Ukraine	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
8620	Vietnam	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
2007/00183	South Africa	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.211V1070-2013
7,724,777	United States	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.212V1070-2013
2005264977	Australia	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
PI0512127-2	Brazil	Pending	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
8,228,949	United States	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.212V1070-2013
2571106	Canada	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
1474-2005	Chile	Pending	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.212V1070-2013
ZL200580027552.0	China P.R.	Granted	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.212V1070-2013
PCT1226/2006	Egypt	Pending	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
D1PCT1226/2006	Egypt	Pending	Multiplexing for a multi-carrier communication system	ATIS.3GPP.36.212V1070-2013
05759186.9	European Patent Convention	Pending	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.212V1070-2013
12177785.8	European Patent Convention	Pending	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
HK1104703	Hong Kong	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
ID0025881	Indonesia	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
180123	Israel	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
259412	India	Granted	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.212V1070-2013
4791459	Japan	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
5175317	Japan	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
871815	Republic of Korea	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
269264	Mexico	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
MY-145503-A	Malaysia	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.212V1070-2013
20070242	Norway	Pending	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.212V1070-2013
552150	New Zealand	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
1-2006-502570	Philippines	Granted	Multiplexing for a Multi-Carrier Cellular Communication System	ATIS.3GPP.36.212V1070-2013
2357364	Russian Federation	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
128250	Singapore	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
I362194	Taiwan	Granted	Quasi-orthogonal multiplexing for a multi-carrier communication system	ATIS.3GPP.36.212V1070-2013
90680	Ukraine	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
8620	Vietnam	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
2007/00183	South Africa	Granted	Multiplexing for a multi-carrier cellular communication system	ATIS.3GPP.36.212V1070-2013
7,852,746	United States	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013
AR050791	Argentina	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013
P120104314	Argentina	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013
12/957,087	United States	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013

2585239	Canada	Pending	OFDM system with code spreading of signalling data	ATIS.3GPP.36.211V1070-2013
2159-2005	Chile	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013
05791214.9	European Patent Convention	Pending	OFDM System with Code Spreading of Signalling Data	ATIS.3GPP.36.211V1070-2013
2011-147418	Japan	Pending	OFDM system with code spreading of signalling data	ATIS.3GPP.36.211V1070-2013
2014-096348	Japan	Pending	OFDM system with code spreading of signalling data	ATIS.3GPP.36.211V1070-2013
MY-146296-A	Malaysia	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013
PI 2011005554	Malaysia	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013
I392303	Taiwan	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.211V1070-2013
7,852,746	United States	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
AR050791	Argentina	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
P120104314	Argentina	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
12/957,087	United States	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
2585239	Canada	Pending	OFDM system with code spreading of signalling data	ATIS.3GPP.36.212V1070-2013
2159-2005	Chile	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
05791214.9	European Patent Convention	Pending	OFDM System with Code Spreading of Signalling Data	ATIS.3GPP.36.212V1070-2013
2011-147418	Japan	Pending	OFDM system with code spreading of signalling data	ATIS.3GPP.36.212V1070-2013
2014-096348	Japan	Pending	OFDM system with code spreading of signalling data	ATIS.3GPP.36.212V1070-2013
MY-146296-A	Malaysia	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
PI 2011005554	Malaysia	Pending	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
I392303	Taiwan	Granted	Transmission of signaling in an OFDM-based system	ATIS.3GPP.36.212V1070-2013
8,301,598	United States	Granted	Methods and apparatus for content based notification using hierarchical groups	ATIS.3GPP.36.331V1090-2013
8,639,662	United States	Granted	Methods and apparatus for content based notification using hierarchical groups	ATIS.3GPP.36.331V1090-2013
8,432,803	United States	Granted	Method of providing a gap indication during a sticky assignment	ATIS.3GPP.36.321V1080-2013
8,630,180	United States	Granted	Method of providing a gap indication during a sticky assignment	ATIS.3GPP.36.321V1080-2013
14/100,173	United States	Pending	A method of providing a gap indication during a sticky assignment	ATIS.3GPP.36.321V1080-2013
11/050,897	United States	Pending	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
12/533,765	United States	Pending	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
2566330	Canada	Granted	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
ZL200580022403.5	China P.R.	Granted	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
05744360.8	European Patent Convention	Pending	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
07112089.0	Hong Kong	Pending	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
254842	India	Granted	A method of transmitting and receiving data in a multiple-input multiple-output (MIMO) communication system and apparatus thereof	ATIS.3GPP.36.212V1070-2013
4643632	Japan	Granted	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
2010-040561	Japan	Pending	Continuous Beamforming for a MIMO-OFDM System	ATIS.3GPP.36.212V1070-2013
2014-152339	Japan	Pending	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
10-0924897	Republic of Korea	Granted	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
10-1008740	Republic of Korea	Granted	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013

10-1091296	Republic of Korea	Granted	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
I403111	Taiwan	Granted	Continuous beamforming for a MIMO-OFDM system	ATIS.3GPP.36.212V1070-2013
11/078,470	United States	Pending	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
2006222959	Australia	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
PI0608228-9	Brazil	Pending	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
2600486	Canada	Granted	Systems and Methods for Reducing Uplink Resources to Provide Channel Performance Feedback for Adjustment of Downlink MIMO Channel Data Rates	ATIS.3GPP.36.213V1070-2013
ZL200680012335.9	China P.R.	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
06738520.3	European Patent Convention	Pending	Systems and Methods for Reducing Uplink Resources to Provide Channel Performance Feedback for Adjustment of Downlink MIMO Channel Data Rates	ATIS.3GPP.36.213V1070-2013
IDP0024265	Indonesia	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
185819	Israel	Pending	Systems and Methods for Reducing Uplink Resources to Provide Channel Performance Feedback for Adjustment of Downlink MIMO Channel Data Rates	ATIS.3GPP.36.213V1070-2013
248789	India	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
4796122	Japan	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
957475	Republic of Korea	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
271935	Mexico	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
PI20061060	Malaysia	Pending	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013

561391	New Zealand	Pending	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
1-2007-501973	Philippines	Pending	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
2385538	Russian Federation	Granted	Systems and Methods for Reducing Uplink Resources to Provide Channel Performance Feedback for Adjustment of Downlink MIMO Channel Data Rates	ATIS.3GPP.36.213V1070-2013
2010103033	Russian Federation	Pending	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
135567	Singapore	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
095108058	Taiwan	Pending	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
87049	Ukraine	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
9336	Vietnam	Granted	Systems and Methods for Reducing Uplink Resources to Provide Channel Performance Feedback for Adjustment of Downlink MIMO Channel Data Rates	ATIS.3GPP.36.213V1070-2013
8,724,740	United States	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
14/221,122	United States	Pending	System and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
ZL200780030814.8	China P.R.	Granted	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
201310251665.5	China P.R.	Pending	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
09110609.3	Hong Kong	Pending	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
07814334.4	European Patent Convention	Pending	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
11005003.6	European Patent Convention	Pending	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013

248/CHENP/2009	India	Pending	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
5144662	Japan	Granted	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
5410586	Japan	Granted	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
10-1036978	Republic of Korea	Granted	Systems and methods for providing channel quality feedback for downlink MIMO transmission adjustment	ATIS.3GPP.36.213V1070-2013
I361582	Taiwan	Granted	Systems and methods for reducing uplink resources to provide channel performance feedback for adjustment of downlink MIMO channel data rates	ATIS.3GPP.36.213V1070-2013
8,515,424	United States	Granted	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
PI0511702-0	Brazil	Pending	Connected-state radio session transfer In wireless communication systems	ATIS.3GPP.36.323V1020-2013
13/947,431	United States	Pending	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
2569312	Canada	Pending	Connected-State radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
ZL200580023670.4	China P.R.	Granted	Connected-state radio session transfer in wireless communications systems	ATIS.3GPP.36.323V1020-2013
05804871.1	European Patent Convention	Pending	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
10177331.5	European Patent Convention	Pending	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
07112737.6	Hong Kong	Pending	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
224071	India	Granted	A method and apparatus for wireless communication	ATIS.3GPP.36.323V1020-2013
4542140	Japan	Granted	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
10-1032629	Republic of Korea	Granted	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
10-0991284	Republic of Korea	Granted	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
279603	Mexico	Granted	Connected-state radio session transfer In wireless communication systems	ATIS.3GPP.36.323V1020-2013
PI 20052477	Malaysia	Pending	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013
I388162	Taiwan	Granted	Connected-state radio session transfer in wireless communication systems	ATIS.3GPP.36.323V1020-2013

7,920,884	United States	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
2005253597	Australia	Granted	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0511809-3	Brazil	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
2569384	Canada	Granted	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2741485	Canada	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
ZL200580026324.1	China P.R.	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
ZL200910258501.9	China P.R.	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
201310328961.0	China P.R.	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
14105193.8	Hong Kong	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
05756553.3	European Patent Convention	Pending	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
12004198.3	European Patent Convention	Pending	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1104714	Hong Kong	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
IDP0032336	Indonesia	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
179710	Israel	Granted	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
214933	Israel	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
236677	India	Granted	Method and apparatus for supporting different types of transmissions	ATIS.3GPP.36.211V1070-2013
1584/MUMNP/2009	India	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
2010-254728	Japan	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
2013-087505	Japan	Pending	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-0914874	Republic of Korea	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013

272324	Mexico	Granted	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 20052545	Malaysia	Pending	Frame Structures for a Wireless Communication System with Multiple Radio Technologies	ATIS.3GPP.36.211V1070-2013
2386217	Russian Federation	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
I361014	Taiwan	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
I436679	Taiwan	Granted	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
200700107	Ukraine	Pending	Frame structures for a wireless communication system with multiple radio technologies	ATIS.3GPP.36.211V1070-2013
8,577,299	United States	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
2005253596	Australia	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
PI0511736-4	Brazil	Pending	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
2569457	Canada	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
ZL200580026325.6	China P.R.	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
05758183.7	European Patent Convention	Pending	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
07112848.2	Hong Kong	Pending	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
IDP0025098	Indonesia	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
179770	Israel	Pending	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
237916	India	Granted	Apparatus for wireless communications and method for transmitting data thereof	ATIS.3GPP.36.211V1070-2013
4612046	Japan	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
5356325	Japan	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
915558	Republic of Korea	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
269258	Mexico	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013

MY-146700-A	Malaysia	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
2369031	Russian Federation	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
2472296	Russian Federation	Granted	Flo-TDD physical layer	ATIS.3GPP.36.211V1070-2013
I373947	Taiwan	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
91510	Ukraine	Granted	Wireless communication system with configurable cyclic prefix length	ATIS.3GPP.36.211V1070-2013
102074	Ukraine	Granted	Multiplexing of W-CDMA and OFDM signals in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,000,221	United States	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
2574740	Canada	Pending	Adaptive Pilot Insertion for a MIMO-OFDM System	ATIS.3GPP.36.213V1070-2013
2851734	Canada	Pending	Adaptive Pilot Insertion for a MIMO-OFDM System	ATIS.3GPP.36.213V1070-2013
ZL200580031388.0	China P.R.	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
ZL201110308350.0	China P.R.	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
8,547,820	United States	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP1774736	Germany	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP2453619	Germany	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP1774736	European Patent Convention	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
11166524.6	European Patent Convention	Pending	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP2453619	European Patent Convention	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP1774736	Spain	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP2453619	Spain	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP1774736	France	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP2453619	France	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP1774736	Great Britain	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP2453619	Great Britain	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
07114125.2	Hong Kong	Pending	Adaptive Pilot Insertion for a MIMO-OFDM System	ATIS.3GPP.36.213V1070-2013
796/DELNP/2007	India	Pending	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
7681/DELNP/2011	India	Pending	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP1774736	Italy	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
EP2453619	Italy	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
4690401	Japan	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
5341015	Japan	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
10-2007-7003996	Republic of Korea	Pending	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
10-0945955	Republic of Korea	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
PI20053228	Malaysia	Pending	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
PI20090354	Malaysia	Pending	Adaptive Pilot Insertion for a MIMO-OFDM System	ATIS.3GPP.36.213V1070-2013
EP2453619	Netherlands	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013
I358215	Taiwan	Granted	Adaptive pilot insertion for a MIMO-OFDM system	ATIS.3GPP.36.213V1070-2013

7,747,258	United States	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
8,768,375	United States	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
06736334.1	European Patent Convention	Pending	Method and Apparatus for Performing Position Determination With Pre-Session Action	ATIS.3GPP.36.509V1000-2013
08101430.8	Hong Kong	Pending	Method and Apparatus for Performing Position Determination With Pre-Session Action	ATIS.3GPP.36.509V1000-2013
185045	Israel	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
4653180	Japan	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
5199318	Japan	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
5563030	Japan	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
10-0997304	Republic of Korea	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
10-1004220	Republic of Korea	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
134564	Singapore	Granted	Method and apparatus for performing position determination with pre-session action	ATIS.3GPP.36.509V1000-2013
EP1782592	Belgium	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Bulgaria	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
PI0514648-8	Brazil	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Czech Republic	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Germany	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	European Patent Convention	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Spain	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Finland	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	France	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013

EP1782592	Great Britain	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
08102978.4	Hong Kong	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Hungary	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Ireland	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
236563	India	Granted	Method and apparatus for transmitting and receiving information in a MIMO communication system	ATIS.3GPP.36.211V1070-2013
EP1782592	Italy	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
2007-530161	Japan	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
2010-142699	Japan	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
2007-7006948	Republic of Korea	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
2010-7006818	Republic of Korea	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
2010-7021663	Republic of Korea	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
MX/a/2007/002220	Mexico	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
MX/a/2010/008732	Mexico	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Netherlands	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Romania	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
EP1782592	Sweden	Granted	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
094129365	Taiwan	Pending	Coded-bit scrambling for multi-stream communication in a MIMO channel	ATIS.3GPP.36.211V1070-2013
11/077,751	United States	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
2574281	Canada	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
0815-2005	Chile	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
200580031676.6	China P.R.	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
05733164.7	European Patent Convention	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
07114111.8	Hong Kong	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
259838	India	Granted	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013

2007-522485	Japan	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
10-0954824	Republic of Korea	Granted	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
10-1008098	Republic of Korea	Granted	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
I407720	Taiwan	Granted	Shared signaling channel for a communication system	ATIS.3GPP.36.211V1070-2013
11/077,751	United States	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
2574281	Canada	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
0815-2005	Chile	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
200580031676.6	China P.R.	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
05733164.7	European Patent Convention	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
07114111.8	Hong Kong	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
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2007-522485	Japan	Pending	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
10-0954824	Republic of Korea	Granted	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
10-1008098	Republic of Korea	Granted	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
I407720	Taiwan	Granted	Shared signaling channel for a communication system	ATIS.3GPP.36.212V1070-2013
11/020,457	United States	Pending	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
P050103014	Argentina	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Austria	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
2005275341	Australia	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
2010202110	Australia	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	Belgium	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Belgium	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	Bulgaria	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
PI0513580-0	Brazil	Pending	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Switzerland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
ZL200580031592.2	China P.R.	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	Czech Republic	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	Germany	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Germany	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Denmark	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	European Patent Convention	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	European Patent Convention	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
HK1147379	Hong Kong	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	Spain	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Spain	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
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EP1774822	France	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	France	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	Great Britain	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Great Britain	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013

EP2217031	Greece	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
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216326	Israel	Pending	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
258581	India	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
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4897911	Japan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
5269968	Japan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
10-0971041	Republic of Korea	Granted	Signaling over access channel	ATIS.3GPP.36.300V1090-2013
10-1019549	Republic of Korea	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
275429	Mexico	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
310331	Mexico	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
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EP2217031	Portugal	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP1774822	Romania	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Romania	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
2372749	Russian Federation	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
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EP1774822	Sweden	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
EP2217031	Sweden	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
129156	Singapore	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
102513	Thailand	Pending	Efficient Signaling Over Access Channel	ATIS.3GPP.36.300V1090-2013
I377859	Taiwan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
I450624	Taiwan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
8535	Vietnam	Granted	Efficient signaling over access channel	ATIS.3GPP.36.300V1090-2013
11/020,457	United States	Pending	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
P050103014	Argentina	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Austria	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
2005275341	Australia	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
2010202110	Australia	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Belgium	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013

EP2217031	Belgium	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Bulgaria	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
PI0513580-0	Brazil	Pending	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Switzerland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
ZL200580031592.2	China P.R.	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Czech Republic	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Germany	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Germany	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Denmark	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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EP2217031	European Patent Convention	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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EP1774822	Spain	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Spain	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Finland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Finland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	France	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	France	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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EP2217031	Great Britain	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Greece	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
HK1105750	Hong Kong	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Hungary	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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EP1774822	Ireland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Ireland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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258581	India	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Italy	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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4625079	Japan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
4897911	Japan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
5269968	Japan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
10-0971041	Republic of Korea	Granted	Signaling over access channel	ATIS.3GPP.36.321V1080-2013
10-1019549	Republic of Korea	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
275429	Mexico	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
310331	Mexico	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Netherlands	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Netherlands	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
1-2007-500214	Philippines	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013

EP1774822	Poland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Poland	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Portugal	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP1774822	Romania	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
EP2217031	Romania	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
2372749	Russian Federation	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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EP1774822	Sweden	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
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129156	Singapore	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
102513	Thailand	Pending	Efficient Signaling Over Access Channel	ATIS.3GPP.36.321V1080-2013
I377859	Taiwan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
I450624	Taiwan	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
8535	Vietnam	Granted	Efficient signaling over access channel	ATIS.3GPP.36.321V1080-2013
2579272	Canada	Granted	Method and Apparatus for Pseudo-Secret Key Generation to Generate a Response to a Challenge Received from Service Provider	ATIS.3GPP.33.220V1140-2014
05796375.3	European Patent Convention	Pending	Method and apparatus for pseudo-secret key generation to generate a response to a challenge received from service provider	ATIS.3GPP.33.220V1140-2014
10176421.5	European Patent Convention	Pending	Method and apparatus for pseudo-secret key generation to generate a response to a challenge received from service provider	ATIS.3GPP.33.220V1140-2014
10111441.0	Hong Kong	Pending	Method and apparatus for pseudo-secret key generation to generate a response to a challenge received from service provider	ATIS.3GPP.33.220V1140-2014
08102223.7	Hong Kong	Pending	Method and apparatus for pseudo-secret key generation to generate a response to a challenge received from service provider	ATIS.3GPP.33.220V1140-2014
1821/DELNP/2007	India	Pending	Method and apparatus for pseudo-secret key generation to generate a response to a challenge received from service provider	ATIS.3GPP.33.220V1140-2014
2011-123713	Japan	Pending	Method and apparatus for pseudo-secret key generation to generate a response to a challenge received from service provider	ATIS.3GPP.33.220V1140-2014
10-0987899	Republic of Korea	Granted	Method and apparatus for pseudo-secret key generation to generate a response to a challenge received from service provider	ATIS.3GPP.33.220V1140-2014
PI 20054130	Malaysia	Pending	Pseudo-Secret Key Generation in a Communications System	ATIS.3GPP.33.220V1140-2014
103919	Thailand	Pending	Pseudo-Secret Key Generation in a Communications System	ATIS.3GPP.33.220V1140-2014
8,009,551	United States	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
CL45.664	Chile	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
ZL200580047022.2	China P.R.	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
EP1832077	Germany	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
EP1832077	European Patent Convention	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
EP2259532	European Patent Convention	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
EP1832077	Spain	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
EP1832077	France	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
EP1832077	Great Britain	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013

08102431.5	Hong Kong	Pending	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
261268	India	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
EP1832077	Italy	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
4950068	Japan	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
5619789	Japan	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
952871	Republic of Korea	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
10-1120442	Republic of Korea	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
I401924	Taiwan	Granted	Initial pilot frequency selection	ATIS.3GPP.36.211V1070-2013
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.36.323V1020-2013
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.36.323V1020-2013
8,059,581	United States	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.36.423V1050-2013
I400909	Taiwan	Granted	Method and apparatus for seamless and efficient wireless handoffs	ATIS.3GPP.36.423V1050-2013
6,681,115	United States	Granted	Communique Subscriber Handoff Between A Narrowcast Cellular Communication Network And A Point-To-Point Cellular Communication Network	ATIS.3GPP.26.346V1140-2014
2001281260	Australia	Granted	Communique Subscriber Handoff Between a Narrowcast Cellular Communication Network and a Point-to-Point Cellular Communication Network	ATIS.3GPP.26.346V1140-2014
2419553	Canada	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.26.346V1140-2014
EP1310116	Germany	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.26.346V1140-2014
EP1310116	European Patent Convention	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.26.346V1140-2014
EP1310116	Spain	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.26.346V1140-2014
EP1310116	France	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.26.346V1140-2014
EP1310116	Great Britain	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.26.346V1140-2014
EP1310116	Italy	Granted	Handoff between a narrowcast cellular communication network and a point-to-point cellular communication network	ATIS.3GPP.26.346V1140-2014
8,254,921	United States	Granted	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
PI0514238-5	Brazil	Pending	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
200580033314.0	China P.R.	Pending	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
201410549806.6	China P.R.	Pending	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013

EP1776812	Germany	Granted	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
EP1776812	European Patent Convention	Granted	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
10196627.3	European Patent Convention	Pending	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1776812	Finland	Granted	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
EP1776812	France	Granted	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
EP1776812	Great Britain	Granted	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
08101324.7	Hong Kong	Pending	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
181257	Israel	Pending	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1776812	Italy	Granted	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
2007-525882	Japan	Pending	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
5215417	Japan	Granted	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
5583748	Japan	Granted	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
910142	Republic of Korea	Granted	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
MX/a/2007/001769	Mexico	Pending	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
2007108555	Russian Federation	Pending	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1776812	Sweden	Granted	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
I379551	Taiwan	Granted	Default configurations with differential encoding in a wireless communication system	ATIS.3GPP.36.331V1090-2013
200702493	Ukraine	Pending	Default Configurations with Differential Encoding in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
7,899,480	United States	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Austria	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013

EP1792417	Belgium	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0515088-4	Brazil	Pending	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,359,060	United States	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2579657	Canada	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Switzerland	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200580037878.1	China P.R.	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL201010267358.2	China P.R.	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Germany	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Denmark	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	European Patent Convention	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Spain	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Finland	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	France	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Great Britain	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Greece	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
08102982.8	Hong Kong	Pending	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Hungary	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Ireland	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
235887	India	Granted	Apparatus, system, and method for managing transmission power in a user equipment device	ATIS.3GPP.36.213V1070-2013
EP1792417	Italy	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013

4598074	Japan	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5027283	Japan	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-0915256	Republic of Korea	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
275090	Mexico	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Netherlands	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Poland	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Portugal	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Romania	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1792417	Sweden	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I392257	Taiwan	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I454080	Taiwan	Granted	Apparatus, system, and method for managing transmission power in a wireless communication system	ATIS.3GPP.36.213V1070-2013
7,548,752	United States	Granted	Feedback to support restrictive reuse	ATIS.3GPP.36.101V10100-2013
8,675,509	United States	Granted	Feedback to support restrictive reuse	ATIS.3GPP.36.101V10100-2013
2590657	Canada	Pending	MINIMIZING FEEDBACK BY SENDING A QUALITY INDICATOR FOR A NON-RESTRICTIVE REUSE SET AND A VECTORED QUALITY INDICATOR FOR OTHER REUSE SETS	ATIS.3GPP.36.101V10100-2013
ZL200580048262.4	China P.R.	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
ZL201110090334.9	China P.R.	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
EP1834502	Germany	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
EP1834502	European Patent Convention	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013

EP1834502	Great Britain	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
08105744.0	Hong Kong	Pending	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
5159/DELNP/2007	India	Pending	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
4664378	Japan	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
5123363	Japan	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
10-1045714	Republic of Korea	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
10-1132899	Republic of Korea	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.101V10100-2013
I376887	Taiwan	Granted	Feedback to support restrictive reuse	ATIS.3GPP.36.101V10100-2013
7,548,752	United States	Granted	Feedback to support restrictive reuse	ATIS.3GPP.36.213V1070-2013
8,675,509	United States	Granted	Feedback to support restrictive reuse	ATIS.3GPP.36.213V1070-2013
2590657	Canada	Pending	MINIMIZING FEEDBACK BY SENDING A QUALITY INDICATOR FOR A NON-RESTRICTIVE REUSE SET AND A VECTORED QUALITY INDICATOR FOR OTHER REUSE SETS	ATIS.3GPP.36.213V1070-2013
ZL200580048262.4	China P.R.	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
ZL201110090334.9	China P.R.	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
EP1834502	Germany	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
EP1834502	European Patent Convention	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013

EP1834502	Great Britain	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
08105744.0	Hong Kong	Pending	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
5159/DELNP/2007	India	Pending	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
4664378	Japan	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
5123363	Japan	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
10-1045714	Republic of Korea	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
10-1132899	Republic of Korea	Granted	Minimizing feedback by sending a quality indicator for a non-restrictive reuse set and a vectored quality indicator for other reuse sets	ATIS.3GPP.36.213V1070-2013
I376887	Taiwan	Granted	Feedback to support restrictive reuse	ATIS.3GPP.36.213V1070-2013
8,644,200	United States	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
PI0517013-3	Brazil	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
ZL200580041120.5	China P.R.	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
05820861.2	European Patent Convention	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
08102986.4	Hong Kong	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
238535	India	Granted	Remote station, base station and a method for wireless communication system	ATIS.3GPP.36.302V1050-2013
4653174	Japan	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
5086413	Japan	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
10-2007-7011608	Republic of Korea	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013

10-1161473	Republic of Korea	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
274962	Mexico	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
PI20054952	Malaysia	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.302V1050-2013
8,644,200	United States	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
PI0517013-3	Brazil	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
ZL200580041120.5	China P.R.	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
05820861.2	European Patent Convention	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
08102986.4	Hong Kong	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
238535	India	Granted	Remote station, base station and a method for wireless communication system	ATIS.3GPP.36.331V1090-2013
4653174	Japan	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
5086413	Japan	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10-2007-7011608	Republic of Korea	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10-1161473	Republic of Korea	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
274962	Mexico	Granted	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
PI20054952	Malaysia	Pending	Time multiplexing of unicast and multicast signals on a downlink carrier frequency in a wireless communication system	ATIS.3GPP.36.331V1090-2013
7,920,544	United States	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
2602256	Canada	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
2768879	Canada	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
8,144,682	United States	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
8,606,220	United States	Granted	Methods and apparatuses for transmitting and receiving position reference signals	ATIS.3GPP.36.133V10100-2013

06758215.5	European Patent Convention	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
11169696.9	European Patent Convention	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
08102670.5	Hong Kong	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
4902638	Japan	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
5384596	Japan	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
2011-229622	Japan	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
2376706	Russian Federation	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.133V10100-2013
7,920,544	United States	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
2602256	Canada	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
2768879	Canada	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
8,144,682	United States	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
8,606,220	United States	Granted	Methods and apparatuses for transmitting and receiving position reference signals	ATIS.3GPP.36.211V1070-2013
06758215.5	European Patent Convention	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
11169696.9	European Patent Convention	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
08102670.5	Hong Kong	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
4902638	Japan	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
5384596	Japan	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
2011-229622	Japan	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
2376706	Russian Federation	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.211V1070-2013
7,920,544	United States	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013

2602256	Canada	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
2768879	Canada	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
8,144,682	United States	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
8,606,220	United States	Granted	Methods and apparatuses for transmitting and receiving position reference signals	ATIS.3GPP.36.355V1080-2013
06758215.5	European Patent Convention	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
11169696.9	European Patent Convention	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
08102670.5	Hong Kong	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
4902638	Japan	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
5384596	Japan	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
2011-229622	Japan	Pending	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
2376706	Russian Federation	Granted	Method and apparatus for enhancing signal-to-noise ratio of position location measurements	ATIS.3GPP.36.355V1080-2013
8,179,876	United States	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.211V1070-2013
2590970	Canada	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.211V1070-2013
3389-2005	Chile	Pending	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.211V1070-2013
200580048243.1	China P.R.	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013
05856108.5	European Patent Convention	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013
EP2273697	European Patent Convention	Granted	Method for communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013
10011086.5	European Patent Convention	Pending	A Multiple Modulation Techniques for Use in a Communication System	ATIS.3GPP.36.211V1070-2013
EP2273697	Great Britain	Granted	Multiple modulation techniques for use in a communication system	ATIS.3GPP.36.211V1070-2013
08105745.9	Hong Kong	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013
5029/DELNP/2007	India	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013
5384552	Japan	Granted	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013

1085800	Republic of Korea	Granted	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013
1030208	Republic of Korea	Granted	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.211V1070-2013
MY-151593-A	Malaysia	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.211V1070-2013
I382700	Taiwan	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.211V1070-2013
2005-002685	Venezuela	Pending	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.211V1070-2013
8,179,876	United States	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.213V1070-2013
2590970	Canada	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.213V1070-2013
3389-2005	Chile	Pending	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.213V1070-2013
200580048243.1	China P.R.	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
05856108.5	European Patent Convention	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
EP2273697	European Patent Convention	Granted	Method for communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
10011086.5	European Patent Convention	Pending	A Multiple Modulation Techniques for Use in a Communication System	ATIS.3GPP.36.213V1070-2013
EP2273697	Great Britain	Granted	Multiple modulation techniques for use in a communication system	ATIS.3GPP.36.213V1070-2013
08105745.9	Hong Kong	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
5029/DELNP/2007	India	Pending	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
5384552	Japan	Granted	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
1085800	Republic of Korea	Granted	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
1030208	Republic of Korea	Granted	Method of communicating a frame having a plurality of modulation schemes	ATIS.3GPP.36.213V1070-2013
MY-151593-A	Malaysia	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.213V1070-2013
I382700	Taiwan	Granted	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.213V1070-2013
2005-002685	Venezuela	Pending	Multiple modulation technique for use in a communication system	ATIS.3GPP.36.213V1070-2013
7,643,515	United States	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
2005304715	Australia	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Belgium	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Bulgaria	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003

PI0517599-2	Brazil	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
8,018,974	United States	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
2586282	Canada	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
200580046108.3	China P.R.	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
ZL201010586750.3	China P.R.	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
HK1156159	Hong Kong	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Czech Republic	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Germany	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	European Patent Convention	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
09160819.0	European Patent Convention	Pending	Method and apparatus for deriving transmission timing of downlink control channels in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
10102574.8	Hong Kong	Pending	Method and apparatus for deriving transmission timing of downlink control channels in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Spain	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Finland	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	France	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Great Britain	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
08102448.6	Hong Kong	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Hungary	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
IDP0024342	Indonesia	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Ireland	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
183000	Israel	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003

238469	India	Granted	A method of operating an apparatus for a wireless communication system and the apparatus thereof	T1.3GPP.25.211V3120-2003
2330/MUMNP/2009	India	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Italy	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
4648400	Japan	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
10-0894754	Republic of Korea	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
10-0916863	Republic of Korea	Granted	Method and apparatus for deriving transmission timing of downlink control channels in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
273403	Mexico	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
MY-144508-A	Malaysia	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Netherlands	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Poland	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Romania	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
2367092	Russian Federation	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
EP1810425	Sweden	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
I390878	Taiwan	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
90871	Ukraine	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.211V3120-2003
7,643,515	United States	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
2005304715	Australia	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Belgium	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Bulgaria	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
PI0517599-2	Brazil	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004

8,018,974	United States	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
2586282	Canada	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
200580046108.3	China P.R.	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
ZL201010586750.3	China P.R.	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
HK1156159	Hong Kong	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Czech Republic	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Germany	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	European Patent Convention	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
09160819.0	European Patent Convention	Pending	Method and apparatus for deriving transmission timing of downlink control channels in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
10102574.8	Hong Kong	Pending	Method and apparatus for deriving transmission timing of downlink control channels in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Spain	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Finland	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	France	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Great Britain	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
08102448.6	Hong Kong	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Hungary	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
IDP0024342	Indonesia	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Ireland	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
183000	Israel	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
238469	India	Granted	A method of operating an apparatus for a wireless communication system and the apparatus thereof	T1.3GPP.25.214V3120-2004

2330/MUMNP/2009	India	Pending	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Italy	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
4648400	Japan	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
10-0894754	Republic of Korea	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
10-0916863	Republic of Korea	Granted	Method and apparatus for deriving transmission timing of downlink control channels in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
273403	Mexico	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
MY-144508-A	Malaysia	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Netherlands	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Poland	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Romania	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
2367092	Russian Federation	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
EP1810425	Sweden	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
I390878	Taiwan	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
90871	Ukraine	Granted	Method and apparatus for deriving transmission timing of a downlink control channel in support of enhanced uplink operation	T1.3GPP.25.214V3120-2004
8,160,046	United States	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
AR052433	Argentina	Granted	Control Channel Assignment in a Wireless Communication Network	ATIS.3GPP.36.211V1070-2013
2005319079	Australia	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
2010203104	Australia	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
PI0519702-3	Brazil	Pending	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
8,488,566	United States	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
184165	Israel	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
219446	Israel	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
280074	Mexico	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
295569	Mexico	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
1-2007-501335	Philippines	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
2390932	Russian Federation	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
2521463	Russian Federation	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013

200704760-8	Singapore	Pending	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
161206	Singapore	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
107282	Thailand	Pending	Control Channel Assignment in a Wireless Communication Network	ATIS.3GPP.36.211V1070-2013
I400894	Taiwan	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
I456917	Taiwan	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
10289	Vietnam	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.211V1070-2013
8,160,046	United States	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
AR052433	Argentina	Granted	Control Channel Assignment in a Wireless Communication Network	ATIS.3GPP.36.213V1070-2013
2005319079	Australia	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
2010203104	Australia	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
PI0519702-3	Brazil	Pending	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
8,488,566	United States	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
184165	Israel	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
219446	Israel	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
280074	Mexico	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
295569	Mexico	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
1-2007-501335	Philippines	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
2390932	Russian Federation	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
2521463	Russian Federation	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
200704760-8	Singapore	Pending	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
161206	Singapore	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
107282	Thailand	Pending	Control Channel Assignment in a Wireless Communication Network	ATIS.3GPP.36.213V1070-2013
I400894	Taiwan	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
I456917	Taiwan	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
10289	Vietnam	Granted	Control channel assignment in a wireless communication network	ATIS.3GPP.36.213V1070-2013
11/158,584	United States	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
AR052704	Argentina	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2006222892	Australia	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2010212387	Australia	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2010241320	Australia	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
PI0609037-0	Brazil	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
8,849,210	United States	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2601186	Canada	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
200680016027.3	China P.R.	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
ZL201010256204.3	China P.R.	Granted	Method and device for interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
HK1151664	Hong Kong	Granted	Method and apparatus for interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859587	Germany	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859587	European Patent Convention	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013

10010371.2	European Patent Convention	Pending	Excessive interference reduction method for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.423V1050-2013
EP1859587	Great Britain	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
08108744.4	Hong Kong	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
IDP0033195	Indonesia	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
185956	Israel	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
249214	India	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
1533/MUMNP/2011	India	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
5166577	Japan	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
10-1032833	Republic of Korea	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
10-1157332	Republic of Korea	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
280723	Mexico	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
297005	Mexico	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
MY-150839-A	Malaysia	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
20075205	Norway	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
561493	New Zealand	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
1-2007-502010	Philippines	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2395168	Russian Federation	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2504925	Russian Federation	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
201001777-0	Singapore	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
201004218-2	Singapore	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
I399992	Taiwan	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
102113507	Taiwan	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
94706	Ukraine	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
101826	Ukraine	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
1-2007-02117	Vietnam	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
12392	Vietnam	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
12391	Vietnam	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
8,848,574	United States	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
AR052701	Argentina	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Austria	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2006222893	Australia	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2010212390	Australia	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2010235937	Australia	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Belgium	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
PI0609035-4	Brazil	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
8,879,425	United States	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2601251	Canada	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Switzerland	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
CL47.478	Chile	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
200680015654.5	China P.R.	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013

ZL201010256199.6	China P.R.	Granted	Method and device for interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
201110346069.6	China P.R.	Pending	Method and device for interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
12109437.8	Hong Kong	Pending	Method and device for interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Germany	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Denmark	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	European Patent Convention	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP2265073	European Patent Convention	Granted	Interference Control in a Wireless Communication System	ATIS.3GPP.36.423V1050-2013
EP1859588	Spain	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Finland	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	France	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Great Britain	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Greece	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
08107828.5	Hong Kong	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Hungary	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
IDP0033196	Indonesia	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Ireland	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
185960	Israel	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
245764	India	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Italy	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2008-502054	Japan	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
5259857	Japan	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
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10-1108458	Republic of Korea	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
281842	Mexico	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
302188	Mexico	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Netherlands	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
20075249	Norway	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
561492	New Zealand	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
1-2007-502008	Philippines	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Poland	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Portugal	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Romania	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2390954	Russian Federation	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
2452117	Russian Federation	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
EP1859588	Sweden	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
200708429-6	Singapore	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
161282	Singapore	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
0601001172	Thailand	Pending	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013

I366413	Taiwan	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
94402	Ukraine	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
96369	Ukraine	Granted	Excessive interference reduction method for a wireless communication system utilizing orthogonal multiplexing	ATIS.3GPP.36.423V1050-2013
10941	Vietnam	Granted	Interference control in a wireless communication system	ATIS.3GPP.36.423V1050-2013
11/261,361	United States	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
AR056597	Argentina	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
2006305703	Australia	Granted	Allocation of pilot pattern adapted to channel characteristics for OFDM system	ATIS.3GPP.36.211V1070-2013
PI0617902-9	Brazil	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
2627556	Canada	Granted	Allocation of pilot pattern adapted to channel characteristics for an OFDM system	ATIS.3GPP.36.211V1070-2013
200680048488.9	China P.R.	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
09104200.9	Hong Kong	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1941693	Germany	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247054	Germany	Granted	Selection of pilot pattern according to channel characteristics for a MIMO-OFDM system	ATIS.3GPP.36.211V1070-2013
EP1941693	European Patent Convention	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247054	European Patent Convention	Granted	Selection of pilot pattern according to channel characteristics for a MIMO-OFDM system	ATIS.3GPP.36.211V1070-2013
EP1941693	Great Britain	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2247054	Great Britain	Granted	Selection of pilot pattern according to channel characteristics for a MIMO-OFDM system	ATIS.3GPP.36.211V1070-2013
IDP0029907	Indonesia	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
191093	Israel	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
3476/DELNP/2008	India	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
2012-262436	Japan	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
990632	Republic of Korea	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013

286720	Mexico	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
MY-147711-A	Malaysia	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
20082352	Norway	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
567737	New Zealand	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-500983	Philippines	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
2407200	Russian Federation	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
142073	Singapore	Granted	Allocation of pilot pattern adapted to channel characteristics for an OFDM system	ATIS.3GPP.36.211V1070-2013
I335163	Taiwan	Granted	Method and apparatus of pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
94066	Ukraine	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
10091	Vietnam	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
11/083,693	United States	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0607786-2	Brazil	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
0574-2006	Chile	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200680014533.9	China P.R.	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
06769782.1	European Patent Convention	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
10008766.7	European Patent Convention	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
11105740.9	Hong Kong	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
251428	India	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
5166236	Japan	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
10-0925094	Republic of Korea	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013

10-0961586	Republic of Korea	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
2395919	Russian Federation	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
135521	Singapore	Granted	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
0601001134	Thailand	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
095109223	Taiwan	Pending	Pilot signal transmission for an orthogonal frequency division wireless communication system	ATIS.3GPP.36.211V1070-2013
8,693,383	United States	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
PI0608749-3	Brazil	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
2602826	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
2730587	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
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ZL200680018751.X	China P.R.	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
201210350686.8	China P.R.	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
13109174.4	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
14/175,109	United States	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
14/175,468	United States	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
14/175,528	United States	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
06740062.2	European Patent Convention	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
HK1114716	Hong Kong	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
251026	India	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013

5306807	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
5425750	Japan	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
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5335883	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
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10-0943663	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
10-0943664	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
10-0943665	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
MY-149491-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
PI 20094977	Malaysia	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
PI 20094966	Malaysia	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
PI20094972	Malaysia	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
2387083	Russian Federation	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
200708823-0	Singapore	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
163535	Singapore	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
I319951	Taiwan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.212V1070-2013
098130976	Taiwan	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.212V1070-2013
8,693,383	United States	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.213V1070-2013
PI0608749-3	Brazil	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.213V1070-2013
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2730587	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.213V1070-2013
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ZL200680018751.X	China P.R.	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.213V1070-2013
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10-0939525	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.213V1070-2013
10-0943663	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.213V1070-2013
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MY-149491-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.213V1070-2013
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8,693,383	United States	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
PI0608749-3	Brazil	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
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2730587	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
2730326	Canada	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
2730364	Canada	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.331V1090-2013
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201210350686.8	China P.R.	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
13109174.4	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
14/175,109	United States	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.331V1090-2013
14/175,468	United States	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.331V1090-2013

14/175,528	United States	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.331V1090-2013
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5306807	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
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10-0939525	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
10-0943663	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
10-0943664	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
10-0943665	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.331V1090-2013
MY-149491-A	Malaysia	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013
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I319951	Taiwan	Granted	Method and apparatus for high rate data transmission in wireless communication	ATIS.3GPP.36.331V1090-2013

098130976	Taiwan	Pending	Method and apparatus for high rate data transmission in wireless communications	ATIS.3GPP.36.331V1090-2013
8,693,383	United States	Granted	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
PI0608749-3	Brazil	Pending	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
2602826	Canada	Granted	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
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2730364	Canada	Granted	Method and apparatus for high rate data transmission in wireless communications	T1.3GPP.25.211V3120-2003
ZL200680018751.X	China P.R.	Granted	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
201210350686.8	China P.R.	Pending	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
13109174.4	Hong Kong	Pending	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
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14/175,528	United States	Pending	Method and apparatus for high rate data transmission in wireless communications	T1.3GPP.25.211V3120-2003
06740062.2	European Patent Convention	Pending	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
HK1114716	Hong Kong	Granted	Method and apparatus for high rate data transmission in wireless communications	T1.3GPP.25.211V3120-2003
251026	India	Granted	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
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5425750	Japan	Granted	Method and apparatus for high rate data transmission in wireless communications	T1.3GPP.25.211V3120-2003
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5335883	Japan	Granted	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003

10-0939525	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
10-0943663	Republic of Korea	Granted	Method and apparatus for high rate data transmission in wireless communication	T1.3GPP.25.211V3120-2003
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7,848,298	United States	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
PI0608893-7	Brazil	Pending	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
2600150	Canada	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
ZL200680014873.1	China P.R.	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
EP1856942	Germany	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
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EP1856942	France	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
EP1856942	Great Britain	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
HK1121321	Hong Kong	Granted	De-Coupling Forward and Reverse Link Assignment for Multi-Carrier Wireless Communication Systems	T1.3GPP.25.212V3110-2003
244442	India	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
4773507	Japan	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003

944926	Republic of Korea	Granted	De-coupling forward and reverse link assignment for multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
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7,893,873	United States	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.133V10100-2013
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2631029	Canada	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.133V10100-2013
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2631029	Canada	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
ZL200680047830.3	China P.R.	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
7,876,265	United States	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
06850927.2	European Patent Convention	Pending	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
4761/DELNP/2008	India	Pending	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013

2008-547682	Japan	Pending	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
2012-033907	Japan	Pending	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
2014-219427	Japan	Pending	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
997625	Republic of Korea	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
2427982	Russian Federation	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
I353798	Taiwan	Granted	Methods and systems for providing enhanced position location in wireless communications	ATIS.3GPP.36.355V1080-2013
7,715,822	United States	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Austria	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
2006210510	Australia	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Belgium	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
PI0607359-0	Brazil	Pending	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
7,966,000	United States	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
8,391,841	United States	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
2597475	Canada	Granted	Secure Bootstrapping for Wireless Communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Switzerland	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
ZL200680009662.9	China P.R.	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Germany	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP2259539	Germany	Granted	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
EP1854263	Denmark	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	European Patent Convention	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP2259539	European Patent Convention	Granted	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
11105669.6	Hong Kong	Pending	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
EP1854263	Spain	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP2259539	Spain	Granted	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
EP1854263	Finland	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	France	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP2259539	France	Granted	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
EP1854263	Great Britain	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP2259539	Great Britain	Granted	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
EP1854263	Greece	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
08106747.5	Hong Kong	Pending	Secure Bootstrapping for Wireless Communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Hungary	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
IDP0027183	Indonesia	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Ireland	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
185044	Israel	Granted	Secure Bootstrapping for Wireless Communications	ATIS.3GPP.33.220V1140-2014

243372	India	Granted	Method for authenticating a legacy mobile terminal and a network application function and device thereof	ATIS.3GPP.33.220V1140-2014
EP1854263	Italy	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP2259539	Italy	Granted	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
4763726	Japan	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
10-0975685	Republic of Korea	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
275081	Mexico	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
MY-142227-A	Malaysia	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Netherlands	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP2259539	Netherlands	Granted	Secure bootstrapped keys in GSM	ATIS.3GPP.33.220V1140-2014
20074472	Norway	Pending	Secure Bootstrapping for Wireless Communications	ATIS.3GPP.33.220V1140-2014
560464	New Zealand	Pending	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
1-2007-501684	Philippines	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Poland	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Portugal	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Romania	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
2374778	Russian Federation	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
EP1854263	Sweden	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
134577	Singapore	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
I394466	Taiwan	Granted	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
101123784	Taiwan	Pending	Secure bootstrapping for wireless communications	ATIS.3GPP.33.220V1140-2014
91846	Ukraine	Granted	Secure Bootstrapping for Wireless Communications	ATIS.3GPP.33.220V1140-2014
1-2007-01776	Vietnam	Pending	Secure Bootstrapping for Wireless Communications	ATIS.3GPP.33.220V1140-2014
8,135,088	United States	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
AR052587	Argentina	Granted	Pilot Transmission and Channel Estimation for a Communication System Utilizing Frequency Division Multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Austria	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2006220558	Australia	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Belgium	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
PI0608895-3	Brazil	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2600152	Canada	Granted	Pilot Transmission and Channel Estimation for a Communication System Utilizing Frequency Division Multiplexing	ATIS.3GPP.36.211V1070-2013
2814258	Canada	Pending	Pilot Transmission and Channel Estimation for a Communication System Utilizing Frequency Division Multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Switzerland	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013

0488-2006	Chile	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
200680012109.0	China P.R.	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
201210124760.4	China P.R.	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
13103359.4	Hong Kong	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
201210124967.1	China P.R.	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
13102941.1	Hong Kong	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
201410121177.7	China P.R.	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
13/366,727	United States	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Germany	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Denmark	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	European Patent Convention	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
10011615.1	European Patent Convention	Pending	Estimation for Pilot Design and Channel Interleaved Frequency Division Multiple Access Communication	ATIS.3GPP.36.211V1070-2013
10011616.9	European Patent Convention	Pending	Estimation for Pilot Design and Channel Interleaved Frequency Division Multiple Access Communication	ATIS.3GPP.36.211V1070-2013
EP1867063	Spain	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Finland	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	France	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Great Britain	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Greece	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
08110219.6	Hong Kong	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Hungary	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013

IDP0027544	Indonesia	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Ireland	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
185697	Israel	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
245244	India	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Italy	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2008-500883	Japan	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2011-062782	Japan	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2014-007121	Japan	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2012-004948	Japan	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2014-007132	Japan	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
10-0940165	Republic of Korea	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
10-0965963	Republic of Korea	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
10-0940166	Republic of Korea	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
284768	Mexico	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
PI 20060938	Malaysia	Pending	Pilot Transmission and Channel Estimation for a Communication System Utilizing Frequency Division Multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Netherlands	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
20075017	Norway	Pending	Pilot Transmission and Channel Estimation for a Communication System Utilizing Frequency Division Multiplexing	ATIS.3GPP.36.211V1070-2013
561173	New Zealand	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
1-2007-501919	Philippines	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Poland	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013

EP1867063	Portugal	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Romania	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
2387097	Russian Federation	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
EP1867063	Sweden	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
200706543-6	Singapore	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
160367	Singapore	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
I403118	Taiwan	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
102114744	Taiwan	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
102114743	Taiwan	Pending	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
90133	Ukraine	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
9264	Vietnam	Granted	Pilot transmission and channel estimation for a communication system utilizing frequency division multiplexing	ATIS.3GPP.36.211V1070-2013
11/186,152	United States	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
AR054236B1	Argentina	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
2006223126	Australia	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
PI0608227-0	Brazil	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
2600467	Canada	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
ZL200680012267.6	China P.R.	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
06738091.5	European Patent Convention	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
IDP0029903	Indonesia	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
185823	Israel	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013

250325	India	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
4723632	Japan	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
5221602	Japan	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
962459	Republic of Korea	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
277512	Mexico	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
MY-145297-A	Malaysia	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
20075129	Norway	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
561348	New Zealand	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
1-2007-501956	Philippines	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
2402163	Russian Federation	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
135505	Singapore	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
170724	Singapore	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
095108052	Taiwan	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
92741	Ukraine	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
9242	Vietnam	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
11/186,152	United States	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
AR054236B1	Argentina	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
2006223126	Australia	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
PI0608227-0	Brazil	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
2600467	Canada	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013

ZL200680012267.6	China P.R.	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
06738091.5	European Patent Convention	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
IDP0029903	Indonesia	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
185823	Israel	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
250325	India	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
4723632	Japan	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
5221602	Japan	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
962459	Republic of Korea	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
277512	Mexico	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
MY-145297-A	Malaysia	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
20075129	Norway	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
561348	New Zealand	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
1-2007-501956	Philippines	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
2402163	Russian Federation	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
135505	Singapore	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
170724	Singapore	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
095108052	Taiwan	Pending	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
92741	Ukraine	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
9242	Vietnam	Granted	Systems and methods for beamforming in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
8,706,144	United States	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
ZL200780006269.9	China P.R.	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
14/166,242	United States	Pending	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014

EP1994786	Germany	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
EP1994786	European Patent Convention	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
EP1994786	Great Britain	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
1885/MUMNP/2008	India	Pending	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
4880706	Japan	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
10-0966006	Republic of Korea	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.23.272V1140-2014
0701000794	Thailand	Pending	1x and 1xEV-DO Hybrid Call Setup	ATIS.3GPP.23.272V1140-2014
8,706,144	United States	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
ZL200780006269.9	China P.R.	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
14/166,242	United States	Pending	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
EP1994786	Germany	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
EP1994786	European Patent Convention	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
EP1994786	Great Britain	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
1885/MUMNP/2008	India	Pending	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
4880706	Japan	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
10-0966006	Republic of Korea	Granted	1x and 1xEV-DO hybrid call setup	ATIS.3GPP.36.331V1090-2013
0701000794	Thailand	Pending	1x and 1xEV-DO Hybrid Call Setup	ATIS.3GPP.36.331V1090-2013
8,150,408	United States	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
2006220538	Australia	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
PI0609287-0	Brazil	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
ZL200680014131.9	China P.R.	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP2219404	Germany	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
06737398.5	European Patent Convention	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP2219404	European Patent Convention	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
10112103.7	Hong Kong	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
10163288.3	European Patent Convention	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
11101739.1	Hong Kong	Pending	Method and apparatus for indicating channel correspondence for reverse power control	T1.3GPP.25.211V3120-2003
EP2219404	Great Britain	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
08108963.8	Hong Kong	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003

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185746	Israel	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
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1174/MUMNP/2011	India	Pending	A method and apparatus for wireless communications in a multi carrier communication systems	T1.3GPP.25.211V3120-2003
4773506	Japan	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
5350411	Japan	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
5420574	Japan	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
975243	Republic of Korea	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
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1003321	Republic of Korea	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
MX274834	Mexico	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
20075033	Norway	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
588874	New Zealand	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
1-2007-501938	Philippines	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
2344570	Russian Federation	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
135416	Singapore	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
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92003	Ukraine	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
1-2007-01934	Vietnam	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
8,150,408	United States	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.212V3110-2003

2006220538	Australia	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
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4773506	Japan	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
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92003	Ukraine	Granted	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.214V3120-2004

1-2007-01934	Vietnam	Pending	Pilot grouping and set management in multi-carrier communication systems	T1.3GPP.25.214V3120-2004
11/261,836	United States	Pending	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
EP1869811	Austria	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
EP1869811	Belgium	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
PI0609532-1	Brazil	Pending	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
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EP1869811	Denmark	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
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08018386.6	European Patent Convention	Pending	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
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EP1869811	Finland	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
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186440	Israel	Pending	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
251396	India	Granted	Method for controlling channel signaling in wireless communication system and a wireless communication apparatus therefor	ATIS.3GPP.36.213V1070-2013
EP1869811	Italy	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
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5280427	Japan	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
970849	Republic of Korea	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
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EP1869811	Sweden	Granted	Systems and methods for control channel signaling	ATIS.3GPP.36.213V1070-2013
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11/261,836	United States	Pending	Systems and methods for control channel signaling	T1.3GPP.25.212V3110-2003

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EP1869811	Greece	Granted	Systems and methods for control channel signaling	T1.3GPP.25.212V3110-2003
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EP1869811	Italy	Granted	Systems and methods for control channel signaling	T1.3GPP.25.212V3110-2003
4752003	Japan	Granted	Systems and methods for control channel signaling	T1.3GPP.25.212V3110-2003
5280427	Japan	Granted	Systems and methods for control channel signaling	T1.3GPP.25.212V3110-2003
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11/209,246	United States	Pending	Frequency hopping design for single carrier FDMA systems	ATIS.3GPP.36.211V1070-2013
EP1909403	Belgium	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013
EP1909403	Bulgaria	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013
200680021161.2	China P.R.	Pending	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013

EP1909403	Czech Republic	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013
13/299,898	United States	Pending	Frequency hopping design for single carrier FDMA systems	ATIS.3GPP.36.211V1070-2013
EP1875625	Germany	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013
EP1909403	Germany	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013
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EP1909403	European Patent Convention	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013
10011377.8	European Patent Convention	Pending	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.211V1070-2013
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11/209,246	United States	Pending	Frequency hopping design for single carrier FDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Belgium	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Bulgaria	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
200680021161.2	China P.R.	Pending	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Czech Republic	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
13/299,898	United States	Pending	Frequency hopping design for single carrier FDMA systems	ATIS.3GPP.36.213V1070-2013
EP1875625	Germany	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Germany	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1875625	European Patent Convention	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013

EP1909403	European Patent Convention	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
10011377.8	European Patent Convention	Pending	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
10184156.7	European Patent Convention	Pending	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1875625	Spain	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Spain	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Finland	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1875625	France	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	France	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1875625	Great Britain	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Great Britain	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
08113471.3	Hong Kong	Pending	Frequency hopping design for IFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Hungary	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Ireland	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
251104	India	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1875625	Italy	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Italy	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
4897793	Japan	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
5296129	Japan	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
10-1012976	Republic of Korea	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
10-1012922	Republic of Korea	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
10-1012895	Republic of Korea	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Netherlands	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Poland	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Romania	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
EP1909403	Sweden	Granted	Frequency hopping design for IFDMA, LFDMA and OFDMA systems	ATIS.3GPP.36.213V1070-2013
I319271	Taiwan	Granted	Frequency hopping design for single carrier FDMA systems	ATIS.3GPP.36.213V1070-2013
8,868,118	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
PI0610455-0	Brazil	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
ZL200680019825.1	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
201010519875.4	China P.R.	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
11108204.2	Hong Kong	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
12/906,378	United States	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
EP1875624	Germany	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003

EP1875624	European Patent Convention	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
10176243.3	European Patent Convention	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
EP1875624	Great Britain	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
08110466.6	Hong Kong	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
259023	India	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
1544/MUMNP/2012	India	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
4773509	Japan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
10-1019546	Republic of Korea	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
PI 20061605	Malaysia	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
2384944	Russian Federation	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
136444	Singapore	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
I325250	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
I405430	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.212V3110-2003
8,868,118	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
PI0610455-0	Brazil	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
ZL200680019825.1	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
201010519875.4	China P.R.	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
11108204.2	Hong Kong	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
12/906,378	United States	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
EP1875624	Germany	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004

EP1875624	European Patent Convention	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
10176243.3	European Patent Convention	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
EP1875624	Great Britain	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
08110466.6	Hong Kong	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
259023	India	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
1544/MUMNP/2012	India	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
4773509	Japan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
10-1019546	Republic of Korea	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
PI 20061605	Malaysia	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
2384944	Russian Federation	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
136444	Singapore	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
I325250	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
I405430	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.213V390-2004
8,868,118	United States	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
PI0610455-0	Brazil	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
ZL200680019825.1	China P.R.	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
201010519875.4	China P.R.	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
11108204.2	Hong Kong	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
12/906,378	United States	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
EP1875624	Germany	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004

EP1875624	European Patent Convention	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
10176243.3	European Patent Convention	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
EP1875624	Great Britain	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
08110466.6	Hong Kong	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
259023	India	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
1544/MUMNP/2012	India	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
4773509	Japan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
10-1019546	Republic of Korea	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
PI 20061605	Malaysia	Pending	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
2384944	Russian Federation	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
136444	Singapore	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
I325250	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
I405430	Taiwan	Granted	Multiplexing on the reverse link feedbacks for multiple forward link frequencies	T1.3GPP.25.214V3120-2004
7,961,700	United States	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Austria	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
2006239968	Australia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Belgium	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Belgium	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Bulgaria	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
PI0611147-5	Brazil	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
2606793	Canada	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Switzerland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
200680022108.4	China P.R.	Pending	Wireless user equipment device, base transceiver station, and method of operating the two	ATIS.3GPP.36.213V1070-2013
EP1875692	Czech Republic	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Germany	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Germany	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Denmark	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013

EP1875692	European Patent Convention	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	European Patent Convention	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
HK1140620	Hong Kong	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Spain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Spain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Finland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Finland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	France	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	France	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Great Britain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Great Britain	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Greece	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
08113423.2	Hong Kong	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Hungary	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Hungary	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
W-00200703581	Indonesia	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Ireland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Ireland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
186969	Israel	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
254325	India	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Italy	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Italy	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
4750843	Japan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
5611869	Japan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
10-0946283	Republic of Korea	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
10-0964830	Republic of Korea	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
275773	Mexico	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
MY-144439-A	Malaysia	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Netherlands	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Netherlands	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
20076117	Norway	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
563044	New Zealand	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
581587	New Zealand	Pending	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
1-2007-502417	Philippines	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Poland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Poland	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Portugal	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP1875692	Romania	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Romania	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
2379844	Russian Federation	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
2493666	Russian Federation	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013

EP1875692	Sweden	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
EP2146545	Sweden	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
137082	Singapore	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
154498	Singapore	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
I404366	Taiwan	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
93376	Ukraine	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
9321	Vietnam	Granted	Multi-carrier operation in data transmission systems	ATIS.3GPP.36.213V1070-2013
8,228,917	United States	Granted	Method and apparatus for ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
ZL200680021929.6	China P.R.	Granted	Ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
06751673.2	European Patent Convention	Pending	Method and apparatus for ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
10164307.0	European Patent Convention	Pending	Method and apparatus for ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
251810	India	Granted	Ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
1528/MUMNP/2011	India	Pending	Apparatuses and methods for generating output packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
1529/MUMNP/2011	India	Pending	An apparatus for sending packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
2008-509133	Japan	Pending	Ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
2012-087416	Japan	Pending	Ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
2014-064424	Japan	Pending	Ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
10-0965007	Republic of Korea	Granted	Method and apparatus for ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
PI20061890	Malaysia	Pending	Method and apparatus for ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
I331468	Taiwan	Granted	Method and apparatus for ciphering and re-ordering packets in a wireless communication system	ATIS.3GPP.36.323V1020-2013
8,885,628	United States	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Austria	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Belgium	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
14/483,001	United States	Pending	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013

EP1922830	Switzerland	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
2103-2006	Chile	Pending	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
200680036721.1	China P.R.	Pending	Method and apparatus for code division multiplexing in a single-carrier frequency division multiple access	ATIS.3GPP.36.211V1070-2013
EP1922830	Germany	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Denmark	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	European Patent Convention	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Spain	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Finland	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	France	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Great Britain	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Greece	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
09100246.3	Hong Kong	Pending	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Hungary	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Ireland	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
252667	India	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Italy	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
5571131	Japan	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
10-1029430	Republic of Korea	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Netherlands	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Poland	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013

EP1922830	Portugal	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Romania	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
EP1922830	Sweden	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
I371186	Taiwan	Granted	Code division multiplexing in a single-carrier frequency division multiple access system	ATIS.3GPP.36.211V1070-2013
7,907,958	United States	Granted	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
13/047,547	United States	Pending	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
ZL200680027949.4	China P.R.	Granted	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
06785029.7	European Patent Convention	Pending	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
253175	India	Granted	A method for determining feedback information to be provided and an apparatus thereof	T1.3GPP.25.214V3120-2004
1535/MUMNP/2012	India	Pending	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
4559521	Japan	Granted	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1011408	Republic of Korea	Granted	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
PI 20062877	Malaysia	Pending	Negotiated channel information reporting in a wireless communication system	T1.3GPP.25.214V3120-2004
8,254,924	United States	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
2006259226	Australia	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
PI0612091-1	Brazil	Pending	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
2612250	Canada	Pending	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
CL48.383	Chile	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
ZL200680028001.0	China P.R.	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
06773354.3	European Patent Convention	Pending	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013

10013230.7	European Patent Convention	Pending	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
10013223.2	European Patent Convention	Pending	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
IDP0029957	Indonesia	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
188055	Israel	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
251469	India	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
2008-517150	Japan	Pending	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
2011-147639	Japan	Pending	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
2013-174003	Japan	Pending	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
10-1041664	Republic of Korea	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
10-1043448	Republic of Korea	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
281445	Mexico	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
564297	New Zealand	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
12/21/2013	Philippines	Pending	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
2390973	Russian Federation	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
165372	Singapore	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
I350120	Taiwan	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
92611	Ukraine	Granted	Method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
10988	Vietnam	Granted	A method and apparatus for adaptive registration and paging area determination	ATIS.3GPP.36.304V1060-2013
8,077,692	United States	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Belgium	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013

EP1884096	Bulgaria	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
8,503,421	United States	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
1191-2006	Chile	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Czech Republic	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Germany	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP2288099	Germany	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	European Patent Convention	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
09163209.1	European Patent Convention	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP2288099	European Patent Convention	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.211V1070-2013
11108730.5	Hong Kong	Pending	Extended FDMA technique for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Spain	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP2288099	Spain	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Finland	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	France	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP2288099	France	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Great Britain	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP2288099	Great Britain	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Hungary	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Ireland	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
253144	India	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
2104/MUMNP/2011	India	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Italy	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP2288099	Italy	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.211V1070-2013
2008-512580	Japan	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013

2011-049532	Japan	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
5410481	Japan	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
10-1012990	Republic of Korea	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
10-1094026	Republic of Korea	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
PI 20062321	Malaysia	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Netherlands	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Poland	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
EP1884096	Romania	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
I331461	Taiwan	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.211V1070-2013
8,077,692	United States	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Belgium	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Bulgaria	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
8,503,421	United States	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
1191-2006	Chile	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Czech Republic	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Germany	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP2288099	Germany	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	European Patent Convention	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
09163209.1	European Patent Convention	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP2288099	European Patent Convention	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.213V1070-2013
11108730.5	Hong Kong	Pending	Extended FDMA technique for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Spain	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013

EP2288099	Spain	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Finland	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	France	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP2288099	France	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Great Britain	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP2288099	Great Britain	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Hungary	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Ireland	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
253144	India	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
2104/MUMNP/2011	India	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Italy	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP2288099	Italy	Granted	Extended FDMA technique for wireless communication	ATIS.3GPP.36.213V1070-2013
2008-512580	Japan	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
2011-049532	Japan	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
5410481	Japan	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
10-1012990	Republic of Korea	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
10-1094026	Republic of Korea	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
PI 20062321	Malaysia	Pending	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Netherlands	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Poland	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
EP1884096	Romania	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
I331461	Taiwan	Granted	Enhanced frequency division multiple access for wireless communication	ATIS.3GPP.36.213V1070-2013
7,899,004	United States	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011

PI060103645	Argentina	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
PI0614855-7	Brazil	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
09103689.1	Hong Kong	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
189634	Israel	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
329/MUMNP/2008	India	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
2008-528070	Japan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
2008-7006987	Republic of Korea	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
991655	Republic of Korea	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
MX/a/2008/002582	Mexico	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
PI 20080375	Malaysia	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
20081222	Norway	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
566170	New Zealand	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
1-2008-500454	Philippines	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
2008110948	Russian Federation	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
140235	Singapore	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
099127003	Taiwan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
200803659	Ukraine	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
1-2008-00549	Vietnam	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.322V1000-2011
7,899,004	United States	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
PI060103645	Argentina	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
PI0614855-7	Brazil	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
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189634	Israel	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
329/MUMNP/2008	India	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
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2008-7006987	Republic of Korea	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
991655	Republic of Korea	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
MX/a/2008/002582	Mexico	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
PI 20080375	Malaysia	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
20081222	Norway	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
566170	New Zealand	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
1-2008-500454	Philippines	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
2008110948	Russian Federation	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
140235	Singapore	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
099127003	Taiwan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
200803659	Ukraine	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
1-2008-00549	Vietnam	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.323V1020-2013
7,899,004	United States	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
PI060103645	Argentina	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
PI0614855-7	Brazil	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
09103689.1	Hong Kong	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011

189634	Israel	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
329/MUMNP/2008	India	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
2008-528070	Japan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
2008-7006987	Republic of Korea	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
991655	Republic of Korea	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
MX/a/2008/002582	Mexico	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
PI 20080375	Malaysia	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
20081222	Norway	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
566170	New Zealand	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
1-2008-500454	Philippines	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
2008110948	Russian Federation	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
140235	Singapore	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
099127003	Taiwan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
200803659	Ukraine	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
1-2008-00549	Vietnam	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.412V1010-2011
7,899,004	United States	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
PI060103645	Argentina	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
PI0614855-7	Brazil	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
09103689.1	Hong Kong	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
189634	Israel	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
329/MUMNP/2008	India	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
2008-528070	Japan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
2008-7006987	Republic of Korea	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
991655	Republic of Korea	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
MX/a/2008/002582	Mexico	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
PI 20080375	Malaysia	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
20081222	Norway	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
566170	New Zealand	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
1-2008-500454	Philippines	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
2008110948	Russian Federation	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
140235	Singapore	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
099127003	Taiwan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
200803659	Ukraine	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
1-2008-00549	Vietnam	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.413V1060-2013
7,899,004	United States	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
PI060103645	Argentina	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
PI0614855-7	Brazil	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
09103689.1	Hong Kong	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
189634	Israel	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
329/MUMNP/2008	India	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
2008-528070	Japan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011

2008-7006987	Republic of Korea	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
991655	Republic of Korea	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
MX/a/2008/002582	Mexico	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
PI 20080375	Malaysia	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
20081222	Norway	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
566170	New Zealand	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
1-2008-500454	Philippines	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
2008110948	Russian Federation	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
140235	Singapore	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
099127003	Taiwan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
200803659	Ukraine	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
1-2008-00549	Vietnam	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.422V1010-2011
7,899,004	United States	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
PI060103645	Argentina	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
PI0614855-7	Brazil	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
09103689.1	Hong Kong	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
189634	Israel	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
329/MUMNP/2008	India	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
2008-528070	Japan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
2008-7006987	Republic of Korea	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
991655	Republic of Korea	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
MX/a/2008/002582	Mexico	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
PI 20080375	Malaysia	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
20081222	Norway	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
566170	New Zealand	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
1-2008-500454	Philippines	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
2008110948	Russian Federation	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
140235	Singapore	Granted	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
099127003	Taiwan	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
200803659	Ukraine	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
1-2008-00549	Vietnam	Pending	Distributed protocol over a wireless connection	ATIS.3GPP.36.423V1050-2013
11/471,039	United States	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
PI0611749-0	Brazil	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
2612764	Canada	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
06773781.7	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
12164006.4	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
13100459.9	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
14193340.8	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
08109444.5	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
188265	Israel	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
10024/DELNP/2007	India	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013

5349961	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
5547131	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
2013-132486	Japan	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
10-0937089	Republic of Korea	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
2384021	Russian Federation	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
163515	Singapore	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.305V1050-2013
11/471,039	United States	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
PI0611749-0	Brazil	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
2612764	Canada	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
06773781.7	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
12164006.4	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
13100459.9	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
14193340.8	European Patent Convention	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
08109444.5	Hong Kong	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
188265	Israel	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
10024/DELNP/2007	India	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
5349961	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
5547131	Japan	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
2013-132486	Japan	Pending	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
10-0937089	Republic of Korea	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
2384021	Russian Federation	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
163515	Singapore	Granted	Efficient periodic location reporting in a radio access network	ATIS.3GPP.36.355V1080-2013
8,098,667	United States	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Austria	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Belgium	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
PI0611790-2	Brazil	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
8,634,424	United States	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
2612322	Canada	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Switzerland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
ZL200680029197.5	China P.R.	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
201210127024.4	China P.R.	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013

EP1897396	Germany	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Denmark	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	European Patent Convention	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
10180118.1	European Patent Convention	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Spain	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Finland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	France	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Great Britain	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Greece	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Hungary	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Ireland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
261010	India	Granted	A method that facilitates efficiently providing of scheduling information to a central scheduler	ATIS.3GPP.36.211V1070-2013
883/MUMNP/2014	India	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Italy	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
4787319	Japan	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
5290338	Japan	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
1019001	Republic of Korea	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Netherlands	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Poland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Portugal	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013

EP1897396	Romania	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
2417540	Russian Federation	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
EP1897396	Sweden	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.211V1070-2013
I361608	Taiwan	Granted	Methods, wireless communications apparatus, machine-readable mediums, and processors for efficiently providing and obtaining scheduling information	ATIS.3GPP.36.211V1070-2013
I374645	Taiwan	Granted	Methods, wireless communications apparatus, machine-readable mediums and processors for efficiently providing and obtaining scheduling information	ATIS.3GPP.36.211V1070-2013
8,098,667	United States	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Austria	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Belgium	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
PI0611790-2	Brazil	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
8,634,424	United States	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
2612322	Canada	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Switzerland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
ZL200680029197.5	China P.R.	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
201210127024.4	China P.R.	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Germany	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Denmark	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	European Patent Convention	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
10180118.1	European Patent Convention	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Spain	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013

EP1897396	Finland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	France	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Great Britain	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Greece	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Hungary	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Ireland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
261010	India	Granted	A method that facilitates efficiently providing of scheduling information to a central scheduler	ATIS.3GPP.36.213V1070-2013
883/MUMNP/2014	India	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Italy	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
4787319	Japan	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
5290338	Japan	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
1019001	Republic of Korea	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Netherlands	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Poland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Portugal	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Romania	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
2417540	Russian Federation	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
EP1897396	Sweden	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.213V1070-2013
I361608	Taiwan	Granted	Methods, wireless communications apparatus, machine-readable mediums, and processors for efficiently providing and obtaining scheduling information	ATIS.3GPP.36.213V1070-2013

I374645	Taiwan	Granted	Methods, wireless communications apparatus, machine-readable mediums and processors for efficiently providing and obtaining scheduling information	ATIS.3GPP.36.213V1070-2013
8,098,667	United States	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Austria	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Belgium	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
PI0611790-2	Brazil	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
8,634,424	United States	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
2612322	Canada	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Switzerland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
ZL200680029197.5	China P.R.	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
201210127024.4	China P.R.	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Germany	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Denmark	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	European Patent Convention	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
10180118.1	European Patent Convention	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Spain	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Finland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	France	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Great Britain	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Greece	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Hungary	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013

EP1897396	Ireland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
261010	India	Granted	A method that facilitates efficiently providing of scheduling information to a central scheduler	ATIS.3GPP.36.321V1080-2013
883/MUMNP/2014	India	Pending	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Italy	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
4787319	Japan	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
5290338	Japan	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
1019001	Republic of Korea	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Netherlands	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Poland	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Portugal	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Romania	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
2417540	Russian Federation	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
EP1897396	Sweden	Granted	Methods and apparatus for efficient providing of scheduling information	ATIS.3GPP.36.321V1080-2013
I361608	Taiwan	Granted	Methods, wireless communications apparatus, machine-readable mediums, and processors for efficiently providing and obtaining scheduling information	ATIS.3GPP.36.321V1080-2013
I374645	Taiwan	Granted	Methods, wireless communications apparatus, machine-readable mediums and processors for efficiently providing and obtaining scheduling information	ATIS.3GPP.36.321V1080-2013
8,073,068	United States	Granted	Selective virtual antenna transmission	ATIS.3GPP.36.211V1070-2013
P060103647	Argentina	Pending	Selective virtual antenna transmission	ATIS.3GPP.36.211V1070-2013
PI0614854-9	Brazil	Pending	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
2620067	Canada	Granted	METHOD AND APPARATUS FOR SELECTION OF VIRTUAL ANTENNAS	ATIS.3GPP.36.211V1070-2013
200680039275.X	China P.R.	Pending	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
06802139.3	European Patent Convention	Pending	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
09103690.8	Hong Kong	Pending	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
IDP0026251	Indonesia	Granted	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
189635	Israel	Pending	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013

4819897	Japan	Granted	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
5479411	Japan	Granted	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
962453	Republic of Korea	Granted	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
289868	Mexico	Granted	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
20081228	Norway	Pending	METHOD AND APPARATUS FOR SELECTION OF VIRTUAL ANTENNAS	ATIS.3GPP.36.211V1070-2013
566171	New Zealand	Pending	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
2395903	Russian Federation	Granted	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
200801455-7	Singapore	Pending	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
0601004007	Thailand	Pending	Selective virtual antenna transmission	ATIS.3GPP.36.211V1070-2013
I337475	Taiwan	Granted	Selective virtual antenna transmission	ATIS.3GPP.36.211V1070-2013
92361	Ukraine	Granted	Method and apparatus for selection of virtual antennas	ATIS.3GPP.36.211V1070-2013
1-2008-00718	Vietnam	Pending	METHOD AND APPARATUS FOR SELECTION OF VIRTUAL ANTENNAS	ATIS.3GPP.36.211V1070-2013
8,160,596	United States	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Austria	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Belgium	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
PI0613557-9	Brazil	Pending	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
2616003	Canada	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Switzerland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
200680034159.9	China P.R.	Pending	A method and system for providing asymmetric modes of operation in multi-carrier wireless communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Germany	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Denmark	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	European Patent Convention	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Spain	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Finland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	France	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Great Britain	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003

EP1911180	Greece	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
09103536.6	Hong Kong	Pending	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Hungary	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Ireland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
252794	India	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Italy	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
4927839	Japan	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
10-0939524	Republic of Korea	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Netherlands	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Poland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Portugal	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Romania	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
2378764	Russian Federation	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
EP1911180	Sweden	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
139273	Singapore	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
I325247	Taiwan	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.211V3120-2003
8,160,596	United States	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Austria	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Belgium	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
PI0613557-9	Brazil	Pending	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003

2616003	Canada	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Switzerland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
200680034159.9	China P.R.	Pending	A method and system for providing asymmetric modes of operation in multi-carrier wireless communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Germany	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Denmark	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	European Patent Convention	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Spain	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Finland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	France	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Great Britain	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Greece	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
09103536.6	Hong Kong	Pending	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Hungary	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
EP1911180	Ireland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
252794	India	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
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EP1911180	Poland	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003

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139273	Singapore	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.212V3110-2003
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8,160,596	United States	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.213V390-2004
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200680034159.9	China P.R.	Pending	A method and system for providing asymmetric modes of operation in multi-carrier wireless communication systems	T1.3GPP.25.213V390-2004
EP1911180	Germany	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.213V390-2004
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EP1911180	European Patent Convention	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.213V390-2004
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EP1911180	Romania	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.214V3120-2004
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139273	Singapore	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.214V3120-2004
I325247	Taiwan	Granted	Asymmetric mode of operation in multi-carrier communication systems	T1.3GPP.25.214V3120-2004
8,660,095	United States	Granted	Reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
PI0613603-6	Brazil	Pending	Reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
200680033568.7	China P.R.	Pending	Method and apparatus for reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
09110253.2	Hong Kong	Pending	Reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
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4908508	Japan	Granted	Reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
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2008106618	Russian Federation	Pending	Reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
200800539-9	Singapore	Pending	Reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
I358213	Taiwan	Granted	Reverse link transmit power control in a wireless communication system	T1.3GPP.25.214V3120-2004
13/271,108	United States	Pending	Method and apparatus for antenna diversity in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
13/271,113	United States	Pending	Method and apparatus for antenna diversity in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013
13/271,121	United States	Pending	Method and apparatus for antenna diversity in multi-input multi-output communication systems	ATIS.3GPP.36.211V1070-2013

CL47.718	Chile	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
CL47.613	Chile	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
CL46.584	Chile	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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EP1917736	Great Britain	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
09103483.9	Hong Kong	Pending	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
259076	India	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1739/MUMNP/2012	India	Pending	Method and apparatus for antenna selection in a MIMO system	ATIS.3GPP.36.211V1070-2013
EP1917736	Italy	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5405108	Japan	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5389894	Japan	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-150743	Japan	Pending	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2014-212940	Japan	Pending	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-0954485	Republic of Korea	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1917736	Netherlands	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
0601003982	Thailand	Pending	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I358216	Taiwan	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.211V1070-2013

13/271,108	United States	Pending	Method and apparatus for antenna diversity in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
13/271,113	United States	Pending	Method and apparatus for antenna diversity in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
13/271,121	United States	Pending	Method and apparatus for antenna diversity in multi-input multi-output communication systems	ATIS.3GPP.36.213V1070-2013
CL47.718	Chile	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
CL47.613	Chile	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
CL46.584	Chile	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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EP1917736	Great Britain	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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259076	India	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1739/MUMNP/2012	India	Pending	Method and apparatus for antenna selection in a MIMO system	ATIS.3GPP.36.213V1070-2013
EP1917736	Italy	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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I358216	Taiwan	Granted	Method and apparatus for providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11/498,461	United States	Pending	Methods and apparatus for mobile terminal-based radio resource management and wireless network optimization	ATIS.3GPP.36.304V1060-2013
8,798,666	United States	Granted	Methods and apparatus for mobile terminal-based radio resource management and wireless network optimization	ATIS.3GPP.36.304V1060-2013
8,130,857	United States	Granted	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0706579-5	Brazil	Pending	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2636201	Canada	Granted	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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12109606.3	Hong Kong	Pending	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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08168532.3	European Patent Convention	Pending	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
259559	India	Granted	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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144234	Singapore	Granted	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I415430	Taiwan	Granted	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
101133196	Taiwan	Pending	Method and apparatus for pilot multiplexing in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,358,629	United States	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
AR056760	Argentina	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
PI0618186-4	Brazil	Pending	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
2628213	Canada	Pending	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
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06839669.6	European Patent Convention	Pending	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
262568	India	Granted	A method for determining signal quality in a communication network and a communication apparatus thereof	ATIS.3GPP.36.300V1090-2013
10-1120735	Republic of Korea	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
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166867	Singapore	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
I425849	Taiwan	Granted	Mobile device-initiated measurement gap request	ATIS.3GPP.36.300V1090-2013
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7,965,789	United States	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
P060103648	Argentina	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
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EP1932251	Switzerland	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
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201110330370.8	China P.R.	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
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EP1932251	European Patent Convention	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
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12173208.5	European Patent Convention	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
13105374.0	Hong Kong	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Spain	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Finland	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	France	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Great Britain	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Greece	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Hungary	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Ireland	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
255470	India	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
2534/MUMNP/2012	India	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
2535/MUMNP/2012	India	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Italy	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
2008-528099	Japan	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
2013-214209	Japan	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
5318905	Japan	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
5490831	Japan	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
5503040	Japan	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
10-1139092	Republic of Korea	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
10-1120193	Republic of Korea	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
10-1120202	Republic of Korea	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Netherlands	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Poland	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Portugal	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
EP1932251	Romania	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013

EP1932251	Sweden	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
0601003983	Thailand	Pending	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
I369863	Taiwan	Granted	Reverse link power control for an OFDMA system	ATIS.3GPP.36.101V10100-2013
I456926	Taiwan	Granted	Up link power control for OFDMA systems	ATIS.3GPP.36.101V10100-2013
103125907	Taiwan	Pending	Up link power control for OFDMA systems	ATIS.3GPP.36.101V10100-2013
8,094,595	United States	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
8,098,635	United States	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
ZL200680039441.6	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
ZL201110069675.8	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
EP1932380	Germany	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
EP1932380	European Patent Convention	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
10163332.9	European Patent Convention	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
13178229.4	European Patent Convention	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
EP1932380	Spain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
EP1932380	France	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
EP1932380	Great Britain	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
259288	India	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
266/MUMNP/2012	India	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
EP1932380	Italy	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
4865795	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
5461464	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
5583819	Japan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
2011-197217	Japan	Pending	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013

10-1042082	Republic of Korea	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
10-1111048	Republic of Korea	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
I336181	Taiwan	Granted	Method and apparatus for packet communications in wireless systems	ATIS.3GPP.36.321V1080-2013
8,094,595	United States	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
8,098,635	United States	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
ZL200680039441.6	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
ZL201110069675.8	China P.R.	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
EP1932380	Germany	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
EP1932380	European Patent Convention	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
10163332.9	European Patent Convention	Pending	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
13178229.4	European Patent Convention	Pending	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
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259288	India	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
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5461464	Japan	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
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10-1042082	Republic of Korea	Granted	Method and apparatus for packet communications in wireless systems	T1.3GPP.25.214V3120-2004
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11/373,082	United States	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
ZL200780007940.1	China P.R.	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
201310017085.X	China P.R.	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
13111833.3	Hong Kong	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
8,730,926	United States	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
12/686,909	United States	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
EP1999895	Germany	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
EP2378714	Germany	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
EP1999895	European Patent Convention	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
EP2378714	European Patent Convention	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
12164992.5	European Patent Convention	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
EP1999895	Great Britain	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
EP2378714	Great Britain	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
260588	India	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
2123/MUMNP/2013	India	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
2130/MUMNP/2013	India	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
5080502	Japan	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
2011-173479	Japan	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
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5539439	Japan	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
10-1074305	Republic of Korea	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
2010-7024316	Republic of Korea	Pending	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
10-1234901	Republic of Korea	Granted	System and method for multi-network coverage	ATIS.3GPP.36.300V1090-2013
11/373,082	United States	Pending	System and method for multi-network coverage	ATIS.3GPP.36.331V1090-2013
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12/686,909	United States	Pending	System and method for multi-network coverage	ATIS.3GPP.36.331V1090-2013
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10-1234901	Republic of Korea	Granted	System and method for multi-network coverage	ATIS.3GPP.36.331V1090-2013
11/261,064	United States	Pending	Method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
PI0617901-0	Brazil	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
2627381	Canada	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
CL46.225	Chile	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
ZL200680048558.0	China P.R.	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
06846167.2	European Patent Convention	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
09102596.5	Hong Kong	Pending	Method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
191097	Israel	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
3527/DELNP/2008	India	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
4763797	Japan	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
995789	Republic of Korea	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
287657	Mexico	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
PI20081289	Malaysia	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
20082360	Norway	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013

567739	New Zealand	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
1-2008-501007	Philippines	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
2390937	Russian Federation	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
0601005262	Thailand	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
I338481	Taiwan	Granted	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
200807143	Ukraine	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
1-2008-01254	Vietnam	Pending	A method and apparatus for pre-coding frequency division duplexing system	ATIS.3GPP.36.211V1070-2013
8,760,994	United States	Granted	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
14/268,961	United States	Pending	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
200680048930.8	China P.R.	Pending	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
10102317.0	Hong Kong	Pending	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
14/268,999	United States	Pending	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
EP1943749	Germany	Granted	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
EP1943749	European Patent Convention	Granted	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
EP1943749	Great Britain	Granted	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
980/MUMNP/2008	India	Pending	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
2008-538213	Japan	Pending	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
2012-087409	Japan	Pending	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
10-0997849	Republic of Korea	Granted	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
I338470	Taiwan	Granted	Unitary precoding based on randomized FFT matrices	ATIS.3GPP.36.211V1070-2013
11/511,735	United States	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2006305740	Australia	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI0617867-7	Brazil	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2627720	Canada	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
ZL200680048270.3	China P.R.	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1941634	Germany	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1941634	European Patent Convention	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
EP1941634	Great Britain	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
09103769.4	Hong Kong	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
ID0026347B	Indonesia	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
191101	Israel	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
3530/DELNP/2008	India	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
4902660	Japan	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2011-243724	Japan	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013

987621	Republic of Korea	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
282013	Mexico	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
MY-148722-A	Malaysia	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
20082356	Norway	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
567798	New Zealand	Pending	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1-2008-501003	Philippines	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2405256	Russian Federation	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
142068	Singapore	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
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9952	Vietnam	Granted	Pilot symbol transmission in wireless communication systems	ATIS.3GPP.36.211V1070-2013
8,639,190	United States	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1941647	Austria	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2006306011	Australia	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1941647	Belgium	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
PI0617868-5	Brazil	Pending	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
14/134,528	United States	Pending	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2627401	Canada	Pending	Precoding for Segment Sensitive Scheduling in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
EP1941647	Switzerland	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
ZL200680048659.8	China P.R.	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
09105903.6	Hong Kong	Pending	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
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EP1941647	France	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
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969845	Republic of Korea	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1941647	Liechtenstein	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
284860	Mexico	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
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EP1941647	Netherlands	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
20082363	Norway	Pending	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
567799	New Zealand	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
1-2008-501004	Philippines	Pending	Precoding for Segment Sensitive Scheduling in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013

EP1941647	Poland	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1941647	Portugal	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1941647	Romania	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2384958	Russian Federation	Granted	Precoding for Segment Sensitive Scheduling in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
2527748	Russian Federation	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
EP1941647	Sweden	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
142071	Singapore	Granted	Precoding for segment sensitive scheduling in wireless communication systems	ATIS.3GPP.36.213V1070-2013
91880	Ukraine	Granted	Precoding for Segment Sensitive Scheduling in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
10140	Vietnam	Granted	Precoding for Segment Sensitive Scheduling in Wireless Communication Systems	ATIS.3GPP.36.213V1070-2013
11/260,925	United States	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
PI0617869-3	Brazil	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
2626779	Canada	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
200680047743.8	China P.R.	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
06826906.7	European Patent Convention	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
190974	Israel	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
258854	India	Granted	Resource allocation method during a tune away procedure and a wireless communication apparatus therefor	ATIS.3GPP.36.300V1090-2013
4814334	Japan	Granted	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
1112434	Republic of Korea	Granted	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
300892	Mexico	Granted	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
PI20081260	Malaysia	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
20082349	Norway	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
2420926	Russian Federation	Granted	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
200803175-9	Singapore	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
I343758	Taiwan	Granted	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
200807091	Ukraine	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
1-2008-01268	Vietnam	Pending	Resource allocation during tune-away	ATIS.3GPP.36.300V1090-2013
11/260,925	United States	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
PI0617869-3	Brazil	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
2626779	Canada	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
200680047743.8	China P.R.	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
06826906.7	European Patent Convention	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013

190974	Israel	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
258854	India	Granted	Resource allocation method during a tune away procedure and a wireless communication apparatus therefor	ATIS.3GPP.36.321V1080-2013
4814334	Japan	Granted	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
1112434	Republic of Korea	Granted	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
300892	Mexico	Granted	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
PI20081260	Malaysia	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
20082349	Norway	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
2420926	Russian Federation	Granted	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
200803175-9	Singapore	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
I343758	Taiwan	Granted	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
200807091	Ukraine	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
1-2008-01268	Vietnam	Pending	Resource allocation during tune-away	ATIS.3GPP.36.321V1080-2013
11/260,925	United States	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
PI0617869-3	Brazil	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
2626779	Canada	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
200680047743.8	China P.R.	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
06826906.7	European Patent Convention	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
190974	Israel	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
258854	India	Granted	Resource allocation method during a tune away procedure and a wireless communication apparatus therefor	ATIS.3GPP.36.331V1090-2013
4814334	Japan	Granted	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
1112434	Republic of Korea	Granted	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
300892	Mexico	Granted	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
PI20081260	Malaysia	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
20082349	Norway	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
2420926	Russian Federation	Granted	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
200803175-9	Singapore	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
I343758	Taiwan	Granted	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
200807091	Ukraine	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
1-2008-01268	Vietnam	Pending	Resource allocation during tune-away	ATIS.3GPP.36.331V1090-2013
11/261,065	United States	Pending	Method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
PI0617757-3	Brazil	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
2625987	Canada	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
200680040236.1	China P.R.	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
201410389049.0	China P.R.	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013

EP1941772	Germany	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
EP1941772	European Patent Convention	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
EP1941772	Great Britain	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
09103772.9	Hong Kong	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
190759	Israel	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
766/MUMNP/2008	India	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
5038320	Japan	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
993150	Republic of Korea	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
283711	Mexico	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
PI20081256	Malaysia	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
20082361	Norway	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
567287	New Zealand	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
1-2008-500863	Philippines	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
2395935	Russian Federation	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
2502233	Russian Federation	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
200803174-2	Singapore	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
I335158	Taiwan	Granted	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
200807256	Ukraine	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
1-2008-01252	Vietnam	Pending	A method and apparatus for bootstrapping information in a communication system	ATIS.3GPP.36.211V1070-2013
8,477,684	United States	Granted	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013

PI0719753-5	Brazil	Pending	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2670803	Canada	Granted	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200780044393.4	China P.R.	Granted	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07865065.2	European Patent Convention	Pending	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2586/CHENP/2009	India	Pending	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5059870	Japan	Granted	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1132929	Republic of Korea	Granted	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2437253	Russian Federation	Granted	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I374679	Taiwan	Granted	Acknowledgement of control messages in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,611,263	United States	Granted	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
PI0617903-7	Brazil	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
ZL200680039829.6	China P.R.	Granted	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
06846179.7	European Patent Convention	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
09103771.0	Hong Kong	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
W-00200801361	Indonesia	Pending	Method and apparatus for saving power in a radio communication system	ATIS.3GPP.36.321V1080-2013
190978	Israel	Pending	Method and apparatus for saving power in a radio communication system	ATIS.3GPP.36.321V1080-2013
856/MUMNP/2008	India	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
4824766	Japan	Granted	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
10-1043153	Republic of Korea	Granted	Methods and apparatus for saving power in a radio communication system	ATIS.3GPP.36.321V1080-2013
288212	Mexico	Granted	Method and apparatus for saving power in a radio communication system	ATIS.3GPP.36.321V1080-2013

PI 20081257	Malaysia	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
2008 2362	Norway	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
2406272	Russian Federation	Granted	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
2491793	Russian Federation	Granted	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
0601005266	Thailand	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
200807275	Ukraine	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
1-2008-01092	Vietnam	Pending	Methods and apparatus for saving power by designating frame interlaces in communication systems	ATIS.3GPP.36.321V1080-2013
11/261,158	United States	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
AR056600	Argentina	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
2006305744	Australia	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
PI0617908-8	Brazil	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
CL46.214	Chile	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
ZL200680049714.5	China P.R.	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
09106199.7	Hong Kong	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
06839574.8	European Patent Convention	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
11007141.2	European Patent Convention	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
IDP0028326	Indonesia	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
191092	Israel	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
3500/DELNP/2008	India	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
4960369	Japan	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
10-0965958	Republic of Korea	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
10-1000264	Republic of Korea	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
286276	Mexico	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
MY-146400-A	Malaysia	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
20082357	Norway	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
567797	New Zealand	Pending	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
1-2008-501005	Philippines	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
2404542	Russian Federation	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
2516866	Russian Federation	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
I339050	Taiwan	Granted	Methods and apparatus for sending and receiving messages on a shared signaling channel in a wireless communication system	ATIS.3GPP.36.211V1070-2013
92046	Ukraine	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
10141	Vietnam	Granted	Shared signaling channel	ATIS.3GPP.36.211V1070-2013
11/370,640	United States	Pending	Resource allocation for shared signaling channels	ATIS.3GPP.36.211V1070-2013

2006305699	Australia	Granted	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
PI0617900-2	Brazil	Pending	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
CL46.464	Chile	Granted	Resource allocation for shared signaling channels	ATIS.3GPP.36.211V1070-2013
ZL200680048832.4	China P.R.	Granted	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
09105906.3	Hong Kong	Pending	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
06846178.9	European Patent Convention	Pending	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
11007140.4	European Patent Convention	Pending	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
IDP0032372	Indonesia	Granted	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
191096	Israel	Granted	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
3481/DELNP/2008	India	Pending	Resource allocation for shared signaling channels	ATIS.3GPP.36.211V1070-2013
5289965	Japan	Granted	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
2013-033314	Japan	Pending	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
10-0969737	Republic of Korea	Granted	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
288115	Mexico	Granted	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
MY-145495-A	Malaysia	Granted	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
20082359	Norway	Pending	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
567801	New Zealand	Granted	Resource allocation for shared signaling channels	ATIS.3GPP.36.211V1070-2013
1-2008-500984	Philippines	Granted	Resource allocation for shared signaling channels in OFDM	ATIS.3GPP.36.211V1070-2013
2406227	Russian Federation	Granted	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
I349455	Taiwan	Granted	Resource allocation for shared signaling channels	ATIS.3GPP.36.211V1070-2013
94432	Ukraine	Granted	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
1-2008-01267	Vietnam	Pending	Resource allocation for shared signalin channels in OFDM	ATIS.3GPP.36.211V1070-2013
8,045,512	United States	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
8,842,619	United States	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
ZL200680049240.4	China P.R.	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
09106362.8	Hong Kong	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
06846182.1	European Patent Convention	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
3506/DELNP/2008	India	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2008-538206	Japan	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
5362803	Japan	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
5607209	Japan	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013

982146	Republic of Korea	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
095139920	Taiwan	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.213V1070-2013
8,045,512	United States	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
8,842,619	United States	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
ZL200680049240.4	China P.R.	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
09106362.8	Hong Kong	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
06846182.1	European Patent Convention	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
3506/DELNP/2008	India	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
2008-538206	Japan	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
5362803	Japan	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
5607209	Japan	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
982146	Republic of Korea	Granted	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
095139920	Taiwan	Pending	Scalable frequency band operation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
11/552,966	United States	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
AR056604	Argentina	Granted	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
AR079056	Argentina	Granted	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
PI0617870-7	Brazil	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
2626807	Canada	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
2724736	Canada	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
200680048759.0	China P.R.	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013

09106165.7	Hong Kong	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
06836587.3	European Patent Convention	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
13151940.7	European Patent Convention	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
855/MUMNP/2008	India	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
335/MUMNP/2013	India	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
5539278	Japan	Granted	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
2014-033254	Japan	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
2012-023004	Japan	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
2014-205063	Japan	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
10-1024726	Republic of Korea	Granted	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
201007784-0	Singapore	Pending	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
I413385	Taiwan	Granted	Method and apparatus for achieving flexible bandwidth using variable guard bands	ATIS.3GPP.36.211V1070-2013
PI0711373-0	Brazil	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.211V1070-2013
09107170.8	Hong Kong	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.211V1070-2013
5823/CHENP/2008	India	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.211V1070-2013
2009-511189	Japan	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.211V1070-2013
2414084	Russian Federation	Granted	Frequency hopping of pilot tones	ATIS.3GPP.36.211V1070-2013
PI0711373-0	Brazil	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.212V1070-2013
09107170.8	Hong Kong	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.212V1070-2013
5823/CHENP/2008	India	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.212V1070-2013
2009-511189	Japan	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.212V1070-2013
2414084	Russian Federation	Granted	Frequency hopping of pilot tones	ATIS.3GPP.36.212V1070-2013
PI0711373-0	Brazil	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.213V1070-2013
09107170.8	Hong Kong	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.213V1070-2013
5823/CHENP/2008	India	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.213V1070-2013
2009-511189	Japan	Pending	Frequency hopping of pilot tones	ATIS.3GPP.36.213V1070-2013
2414084	Russian Federation	Granted	Frequency hopping of pilot tones	ATIS.3GPP.36.213V1070-2013
8,489,128	United States	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013

PI0618057-4	Brazil	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
13/942,700	United States	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
2627613	Canada	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
ZL200680049526.2	China P.R.	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
06839644.9	European Patent Convention	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
3604/DELNP/2008	India	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
4875098	Japan	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
10-0983198	Republic of Korea	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
2392749	Russian Federation	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
I326167	Taiwan	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.321V1080-2013
8,489,128	United States	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
PI0618057-4	Brazil	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
13/942,700	United States	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
2627613	Canada	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
ZL200680049526.2	China P.R.	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
06839644.9	European Patent Convention	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
3604/DELNP/2008	India	Pending	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
4875098	Japan	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
10-0983198	Republic of Korea	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
2392749	Russian Federation	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013

I326167	Taiwan	Granted	Efficient transmission on a shared data channel for wireless communication	ATIS.3GPP.36.331V1090-2013
8,842,631	United States	Granted	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
AR056822	Argentina	Granted	Data State Transition During Handoff	ATIS.3GPP.36.323V1020-2013
200680044633.6	China P.R.	Pending	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
06850215.2	European Patent Convention	Pending	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
10152153.2	European Patent Convention	Pending	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
10109680.4	Hong Kong	Pending	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
260774	India	Granted	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
228/MUMNP/2013	India	Pending	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
4843052	Japan	Granted	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
10-1101724	Republic of Korea	Granted	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
I377853	Taiwan	Granted	Data State Transition During Handoff	ATIS.3GPP.36.323V1020-2013
100118050	Taiwan	Pending	Data state transition during handoff	ATIS.3GPP.36.323V1020-2013
8,081,592	United States	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
P060104690	Argentina	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
PI0617911-8	Brazil	Pending	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.300V1090-2013
8,416,728	United States	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
8,391,199	United States	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
2623909	Canada	Granted	Flexible meduim access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
ZL200680040437.1	China P.R.	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
201210393058.8	China P.R.	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
13109099.6	Hong Kong	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
06839557.3	European Patent Convention	Pending	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.300V1090-2013
257944	India	Granted	Flexible medium access control (MAC) method for AD HOC wireless networks	ATIS.3GPP.36.300V1090-2013
2239/MUMNP/2012	India	Pending	A method and apparatus for wireless communication	ATIS.3GPP.36.300V1090-2013
4965577	Japan	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.300V1090-2013
5507588	Japan	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.300V1090-2013

5420686	Japan	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.300V1090-2013
981892	Republic of Korea	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.300V1090-2013
2414101	Russian Federation	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.300V1090-2013
0601005280	Thailand	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
I373946	Taiwan	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.300V1090-2013
8,081,592	United States	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
P060104690	Argentina	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
PI0617911-8	Brazil	Pending	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.423V1050-2013
8,416,728	United States	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
8,391,199	United States	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
2623909	Canada	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
ZL200680040437.1	China P.R.	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
201210393058.8	China P.R.	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
13109099.6	Hong Kong	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
06839557.3	European Patent Convention	Pending	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.423V1050-2013
257944	India	Granted	Flexible medium access control (MAC) method for AD HOC wireless networks	ATIS.3GPP.36.423V1050-2013
2239/MUMNP/2012	India	Pending	A method and apparatus for wireless communication	ATIS.3GPP.36.423V1050-2013
4965577	Japan	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.423V1050-2013
5507588	Japan	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.423V1050-2013
5420686	Japan	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.423V1050-2013
981892	Republic of Korea	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.423V1050-2013

2414101	Russian Federation	Granted	Flexible medium access control (MAC) method for ad hoc wireless networks	ATIS.3GPP.36.423V1050-2013
0601005280	Thailand	Pending	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
I373946	Taiwan	Granted	Flexible medium access control (MAC) for ad hoc deployed wireless networks	ATIS.3GPP.36.423V1050-2013
7,974,639	United States	Granted	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.030V1100-2014
13/175,331	United States	Pending	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.030V1100-2014
7,974,639	United States	Granted	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.080V1100-2014
13/175,331	United States	Pending	Method and apparatus for performing position determination with a short circuit call flow	ATIS.3GPP.24.080V1100-2014
8,638,714	United States	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
PI0706307-5	Brazil	Pending	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
2631577	Canada	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
200780001955.7	China P.R.	Pending	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
09106596.6	Hong Kong	Pending	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
07777504.7	European Patent Convention	Pending	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
5521/DELNP/2008	India	Pending	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
5059782	Japan	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
5356464	Japan	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
1011579	Republic of Korea	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
10-1207783	Republic of Korea	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
10-1301224	Republic of Korea	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
2417542	Russian Federation	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
143433	Singapore	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
I343223	Taiwan	Granted	Fast channel switching in a multimedia broadcast system	ATIS.3GPP.36.300V1090-2013
7,706,328	United States	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
PI0706308-3	Brazil	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
ZL200780001824.9	China P.R.	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
201310365851.1	China P.R.	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
8,489,124	United States	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
13/771,039	United States	Pending	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
EP1977625	Germany	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
EP1977625	European Patent Convention	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
13179225.1	European Patent Convention	Pending	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013

EP1977625	France	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
EP1977625	Great Britain	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
4742/DELNP/2008	India	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
4819910	Japan	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
1006034	Republic of Korea	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
2008131936	Russian Federation	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
200804373-9	Singapore	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.133V10100-2013
I321660	Taiwan	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.133V10100-2013
7,706,328	United States	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
PI0706308-3	Brazil	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
ZL200780001824.9	China P.R.	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
201310365851.1	China P.R.	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
8,489,124	United States	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
13/771,039	United States	Pending	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
EP1977625	Germany	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
EP1977625	European Patent Convention	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
13179225.1	European Patent Convention	Pending	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
EP1977625	France	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
EP1977625	Great Britain	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
4742/DELNP/2008	India	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
4819910	Japan	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
1006034	Republic of Korea	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
2008131936	Russian Federation	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
200804373-9	Singapore	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.211V1070-2013
I321660	Taiwan	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.211V1070-2013
7,706,328	United States	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
PI0706308-3	Brazil	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013

ZL200780001824.9	China P.R.	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013
201310365851.1	China P.R.	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013
8,489,124	United States	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
13/771,039	United States	Pending	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
EP1977625	Germany	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
EP1977625	European Patent Convention	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
13179225.1	European Patent Convention	Pending	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
EP1977625	France	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
EP1977625	Great Britain	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
4742/DELNP/2008	India	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013
4819910	Japan	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013
1006034	Republic of Korea	Granted	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013
2008131936	Russian Federation	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013
200804373-9	Singapore	Pending	Methods and apparatus for determining the location of a mobile device in an OFDM wireless network	ATIS.3GPP.36.355V1080-2013
I321660	Taiwan	Granted	Methods and apparatus for position location in a wireless network	ATIS.3GPP.36.355V1080-2013
8,788,807	United States	Granted	Privacy protection in communication systems	ATIS.3GPP.33.220V1140-2014
PI0706372-5	Brazil	Pending	Privacy protection in communications systems	ATIS.3GPP.33.220V1140-2014
1268/MUMNP/2008	India	Pending	Privacy protection in communication systems	ATIS.3GPP.33.220V1140-2014
2008-550542	Japan	Pending	Privacy protection in communications systems	ATIS.3GPP.33.220V1140-2014
10-2008-7019909	Republic of Korea	Pending	Privacy protection in communications systems	ATIS.3GPP.33.220V1140-2014
2008133206	Russian Federation	Pending	Privacy protection in communications systems	ATIS.3GPP.33.220V1140-2014
7,768,449	United States	Granted	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
8,334,807	United States	Granted	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
ZL200780002070.9	China P.R.	Granted	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
201310181022.8	China P.R.	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
11008870.5	European Patent Convention	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
5431/DELNP/2008	India	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
2008-550408	Japan	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
2012-009352	Japan	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
1037059	Republic of Korea	Granted	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
7,893,869	United States	Granted	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
ZL200780053825.8	China P.R.	Granted	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
8,723,726	United States	Granted	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
69/MUMNP/2010	India	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013

2010-516965	Japan	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
2012-138852	Japan	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
10-2010-7003760	Republic of Korea	Pending	Global navigation satellite system	ATIS.3GPP.36.355V1080-2013
11/510,220	United States	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
200780031506.7	China P.R.	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
10101552.6	Hong Kong	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
07841359.8	European Patent Convention	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
10164472.2	European Patent Convention	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
777/DELNP/2009	India	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
5102296	Japan	Granted	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
5155438	Japan	Granted	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
10-1459527	Republic of Korea	Granted	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
10-2012-7034174	Republic of Korea	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
096130989	Taiwan	Pending	Selection of an access point in a communications system	ATIS.3GPP.36.304V1060-2013
7,934,137	United States	Granted	Message remapping and encoding	T1.3GPP.25.212V3110-2003
PI0707499-9	Brazil	Pending	Message remapping and encoding	T1.3GPP.25.212V3110-2003
2630616	Canada	Granted	Message remapping and encoding	T1.3GPP.25.212V3110-2003
ZL200780004519.5	China P.R.	Granted	Message remapping and encoding	T1.3GPP.25.212V3110-2003
07763265.1	European Patent Convention	Pending	Message remapping and encoding	T1.3GPP.25.212V3110-2003
4509/DELNP/2008	India	Pending	Message remapping and encoding	T1.3GPP.25.212V3110-2003
4991766	Japan	Granted	Message remapping and encoding	T1.3GPP.25.212V3110-2003
5341158	Japan	Granted	Message remapping and encoding	T1.3GPP.25.212V3110-2003
10-2008-7021801	Republic of Korea	Pending	Message remapping and encoding	T1.3GPP.25.212V3110-2003
2407146	Russian Federation	Granted	Message remapping and encoding	T1.3GPP.25.212V3110-2003
I353733	Taiwan	Granted	Message remapping and encoding	T1.3GPP.25.212V3110-2003
7,957,757	United States	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
2008269968	Australia	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
PI0814255-6	Brazil	Pending	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
8,548,515	United States	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
ZL200880023495.2	China P.R.	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
10108997.4	Hong Kong	Pending	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
EP2012442	Germany	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
EP2012442	European Patent Convention	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
11176020.3	European Patent Convention	Pending	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
EP2012442	Great Britain	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
IDP0030529	Indonesia	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
202716	Israel	Pending	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
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289402	Mexico	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013

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10266	Vietnam	Granted	Open loop power offset update	ATIS.3GPP.36.213V1070-2013
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PI0814255-6	Brazil	Pending	Open loop power offset update	ATIS.3GPP.36.321V1080-2013
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EP2012442	European Patent Convention	Granted	Open loop power offset update	ATIS.3GPP.36.321V1080-2013
11176020.3	European Patent Convention	Pending	Open loop power offset update	ATIS.3GPP.36.321V1080-2013
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EP2002669	Romania	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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EP2002669	Sweden	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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281155	Mexico	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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2010-521162	Japan	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
10-2010-7005715	Republic of Korea	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
MX/a/2010/001798	Mexico	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
PI 2010000452	Malaysia	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
582854	New Zealand	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
2010109752	Russian Federation	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
097131328	Taiwan	Pending	A method and apparatus for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
201002979	Ukraine	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
1-2010-00569	Vietnam	Pending	Methods and apparatuses for transmitting non-decodable packets	ATIS.3GPP.36.212V1070-2013
EP1576838	Austria	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Belgium	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
2547913	Canada	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Switzerland	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Germany	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Denmark	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013

EP1576838	European Patent Convention	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Spain	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Finland	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	France	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Great Britain	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Greece	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Ireland	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Italy	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Netherlands	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Portugal	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
EP1576838	Sweden	Granted	Allocating a channel resource in a system	ATIS.3GPP.36.321V1080-2013
2547910	Canada	Granted	Apparatus and method for use in effecting automatic repeat requests in wireless multiple access communications systems	ATIS.3GPP.36.211V1070-2013
02795725.7	European Patent Convention	Pending	Apparatus and method for use in effecting automatic repeat requests in wireless multiple access communications systems	ATIS.3GPP.36.211V1070-2013
13020061.1	European Patent Convention	Pending	Apparatus and method for use in effecting automatic repeat requests in wireless multiple access communications systems	ATIS.3GPP.36.211V1070-2013
2547910	Canada	Granted	Apparatus and method for use in effecting automatic repeat requests in wireless multiple access communications systems	ATIS.3GPP.36.213V1070-2013
02795725.7	European Patent Convention	Pending	Apparatus and method for use in effecting automatic repeat requests in wireless multiple access communications systems	ATIS.3GPP.36.213V1070-2013
13020061.1	European Patent Convention	Pending	Apparatus and method for use in effecting automatic repeat requests in wireless multiple access communications systems	ATIS.3GPP.36.213V1070-2013
6,473,418	United States	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
760650	Australia	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
PI0000965-2	Brazil	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
2298360	Canada	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
ZL00103869.9	China P.R.	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
EP1039683	Germany	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
EP1039683	European Patent Convention	Granted	Frequency hopping multiple access with multicarrier signals	ATIS.3GPP.36.211V1070-2013
1039683	Spain	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
1039683	Finland	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013

1039683	France	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
1039683	Great Britain	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
ID0012444	Indonesia	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
213918	India	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
1039683	Italy	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
3703002	Japan	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
388571	Republic of Korea	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
6,473,418	United States	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
760650	Australia	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
PI0000965-2	Brazil	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
2298360	Canada	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
ZL00103869.9	China P.R.	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
EP1039683	Germany	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
EP1039683	European Patent Convention	Granted	Frequency hopping multiple access with multicarrier signals	ATIS.3GPP.36.213V1070-2013
1039683	Spain	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
1039683	Finland	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
1039683	France	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
1039683	Great Britain	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
ID0012444	Indonesia	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
213918	India	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
1039683	Italy	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013

3703002	Japan	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
388571	Republic of Korea	Granted	Orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.213V1070-2013
6,553,019	United States	Granted	Communications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
772662	Australia	Granted	Communications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
EP1111834	Belgium	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
PI0006806-3	Brazil	Pending	Communications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
2327980	Canada	Granted	Communications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
ZL00136413.8	China P.R.	Granted	Comunications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
EP1111834	Germany	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	Germany	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2271023	Germany	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP1111834	European Patent Convention	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	European Patent Convention	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2271023	European Patent Convention	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
09109525.6	Hong Kong	Pending	Assignment and generation of HOP sequences in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP1111834	Spain	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	Spain	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2271023	Spain	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP1111834	Finland	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	Finland	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013

EP1111834	France	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	France	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2271023	France	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP1111834	Great Britain	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	Great Britain	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2271023	Great Britain	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP1111834	Ireland	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
213912	India	Granted	Communications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
EP1111834	Italy	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	Italy	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2271023	Italy	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
4593767	Japan	Granted	Communications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
804920	Republic of Korea	Granted	Communications system employing orthogonal frequency division multiplexing based spread spectrum multiple access	ATIS.3GPP.36.211V1070-2013
EP1111834	Netherlands	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	Netherlands	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP1111834	Sweden	Granted	Assignment and generation of hop sequences, in multicarrier spread spectrum systems	ATIS.3GPP.36.211V1070-2013
EP2048809	Sweden	Granted	Assignment and generation of frequency hopping sequences in spread spectrum systems	ATIS.3GPP.36.211V1070-2013
7,295,509	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP1981204	Austria	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP1981204	Belgium	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Belgium	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
8,014,271	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
8,295,154	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
13/619,460	United States	Pending	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013

8,199,634	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
8,218,425	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
8,223,627	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP1981204	Switzerland	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Switzerland	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
7,623,442	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
8,098,568	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
7,990,843	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
7,924,699	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
7,916,624	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
7,990,844	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
8,098,569	United States	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP1981204	Germany	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Germany	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Denmark	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Denmark	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
01968769.8	European Patent Convention	Pending	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP1981204	European Patent Convention	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	European Patent Convention	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
11109842.8	Hong Kong	Pending	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
1124704	Hong Kong	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
10012081.5	European Patent Convention	Pending	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
11108954.4	Hong Kong	Pending	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
10012082.3	European Patent Convention	Pending	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
11109840.0	Hong Kong	Pending	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
10012083.1	European Patent Convention	Pending	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
11110023.7	Hong Kong	Pending	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Spain	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Spain	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Finland	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Finland	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	France	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	France	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Great Britain	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Great Britain	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Greece	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Greece	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Ireland	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP1981204	Italy	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Italy	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Netherlands	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013

EP2299624	Netherlands	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Portugal	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Portugal	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
EP1981204	Sweden	Granted	Signaling method in an FDM multiple access system	ATIS.3GPP.36.211V1070-2013
EP2299624	Sweden	Granted	Signaling method in an OFDM multiple access wireless system	ATIS.3GPP.36.211V1070-2013
185808	Taiwan	Granted	Signaling method in an OFDM multiple access system	ATIS.3GPP.36.211V1070-2013
09/931,469	United States	Pending	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Austria	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
EP2315386	Austria	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Belgium	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
EP2315386	Belgium	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
14/278,405	United States	Pending	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Switzerland	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
EP2315386	Switzerland	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Germany	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
60149058.4	Germany	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Denmark	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
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EP2315386	European Patent Convention	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
14178034.6	European Patent Convention	Pending	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
11111185.9	Hong Kong	Pending	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
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EP2315386	Spain	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Finland	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
EP2315386	Finland	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	France	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
EP2315386	France	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Great Britain	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
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EP2315386	Greece	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
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EP2315386	Ireland	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
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EP2315386	Italy	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Netherlands	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
EP2315386	Netherlands	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Portugal	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013
EP2315386	Portugal	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
EP1317813	Sweden	Granted	Multicarrier receiver	ATIS.3GPP.36.211V1070-2013

EP2315386	Sweden	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
NI-178243	Taiwan	Granted	OFDM communications methods and apparatus	ATIS.3GPP.36.211V1070-2013
7,450,543	United States	Granted	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Austria	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Belgium	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
12/249,637	United States	Pending	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
13/965,480	United States	Pending	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Switzerland	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
ZL02815846.6	China P.R.	Granted	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
201210135887.6	China P.R.	Pending	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
13102478.2	Hong Kong	Pending	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Germany	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Denmark	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	European Patent Convention	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
12006352.4	European Patent Convention	Pending	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Spain	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Finland	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	France	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Great Britain	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Greece	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Ireland	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
240905	India	Granted	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Italy	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
2003-521638	Japan	Pending	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
2009-170846	Japan	Pending	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
2012-043989	Japan	Pending	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
5497121	Japan	Granted	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
5497120	Japan	Granted	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
10-0945969	Republic of Korea	Granted	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Netherlands	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Portugal	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
EP1421802	Sweden	Granted	Method and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
I-222814	Taiwan	Granted	Methods and apparatus for wireless network connectivity	T1.3GPP.25.211V3120-2003
7,133,354	United States	Granted	Synchronization Techniques for a Wireless System	ATIS.3GPP.36.211V1070-2013
2536218	Canada	Granted	Synchronization techniques for a wireless system	ATIS.3GPP.36.211V1070-2013
7,382,755	United States	Granted	Method to convey uplink traffic information	ATIS.3GPP.36.321V1080-2013
6,862,446	United States	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
2004209273	Australia	Pending	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013

2010200993	Australia	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
6,990,337	United States	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
7,369,855	United States	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
7,962,142	United States	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
2554546	Canada	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
200480008722.6	China P.R.	Pending	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
ZL200810190338.2	China P.R.	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
04705282.4	European Patent Convention	Pending	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
219721	India	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
6,862,446	United States	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.331V1090-2013
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219721	India	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.413V1060-2013
6,862,446	United States	Granted	Methods and apparatus for the utilization of core based nodes for state transfer	ATIS.3GPP.36.423V1050-2013
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7,668,541	United States	Granted	Enhanced techniques for using core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
8,886,180	United States	Granted	Enhanced techniques for using core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
14/515,415	United States	Pending	Enhanced techniques for using core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
2575971	Canada	Granted	Enhanced techniques for using core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
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5027314	Japan	Granted	Enhanced techniques for using core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
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10-0945972	Republic of Korea	Granted	Enhanced techniques for using core based nodes for state transfer	ATIS.3GPP.36.300V1090-2013
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14/515,415	United States	Pending	Enhanced techniques for using core based nodes for state transfer	ATIS.3GPP.36.423V1050-2013
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7,039,370	United States	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
7,610,024	United States	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
8,571,493	United States	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2542655	Canada	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
ZL200480035455.1	China P.R.	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
ZL200910211816.8	China P.R.	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
10110348.6	Hong Kong	Pending	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
04795313.8	European Patent Convention	Pending	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
240719	India	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
4685789	Japan	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
5155379	Japan	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013

2012-209876	Japan	Pending	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
10-1140023	Republic of Korea	Granted	Methods and apparatus of providing transmit and/or receive diversity with multiple antennas in wireless communication systems	ATIS.3GPP.36.213V1070-2013
7,711,377	United States	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0511990-1	Brazil	Pending	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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5248566	Japan	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2012-087625	Japan	Pending	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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275816	Mexico	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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580563	New Zealand	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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2392769	Russian Federation	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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2006/10296	South Africa	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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20070154	Norway	Pending	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
551852	New Zealand	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
580563	New Zealand	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1-2006-502479	Philippines	Pending	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2392769	Russian Federation	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
128082	Singapore	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
200700223	Ukraine	Pending	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
101188	Ukraine	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1-2007-00062	Vietnam	Pending	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2006/10296	South Africa	Granted	Efficient paging in a wireless communication system	ATIS.3GPP.36.331V1090-2013

7,697,501	United States	Granted	Methods and apparatus for separating home agent functionality	ATIS.3GPP.23.401V1150-2014
8,077,695	United States	Granted	Methods and apparatus for separating home agent functionality	ATIS.3GPP.23.401V1150-2014
8,457,099	United States	Granted	Methods and apparatus for separating home agent functionality	ATIS.3GPP.23.401V1150-2014
11/486,714	United States	Pending	Methods and apparatus for determining, communicating and using information which can be used for interference control	ATIS.3GPP.36.331V1090-2013
2783-2006	Chile	Pending	Methods and apparatus for determining, communicating and using information which can be used for interference control	ATIS.3GPP.36.331V1090-2013
200680045446.X	China P.R.	Pending	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
EP1943758	Germany	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
EP1943758	European Patent Convention	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
EP1943758	Spain	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
EP1943758	France	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
EP1943758	Great Britain	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
263285	India	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
EP1943758	Italy	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
4782841	Japan	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
10-1026590	Republic of Korea	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
EP1943758	Netherlands	Granted	Methods and apparatus for determining, communicating and using information including loading factors for interference control	ATIS.3GPP.36.331V1090-2013
0601005083	Thailand	Pending	Methods and apparatus for determining, communicating and using information which can be used for interference control	ATIS.3GPP.36.331V1090-2013
I354460	Taiwan	Granted	Methods and apparatus for determining, communicating and using information which can be used for interference control	ATIS.3GPP.36.331V1090-2013
8,694,042	United States	Granted	Methods and apparatus for determining a base station's transmission power budget	ATIS.3GPP.36.423V1050-2013
2789-2006	Chile	Pending	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
ZL200680045781.X	China P.R.	Granted	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
09105228.4	Hong Kong	Pending	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013

06817054.7	European Patent Convention	Pending	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
257497	India	Granted	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
4782842	Japan	Granted	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
10-1026623	Republic of Korea	Granted	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
0601005086	Thailand	Pending	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
I368403	Taiwan	Granted	Methods and apparatus for controlling a base station's transmission power	ATIS.3GPP.36.423V1050-2013
8,437,251	United States	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
AR056856	Argentina	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Austria	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Belgium	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
8,830,827	United States	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Switzerland	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
ZL200680048768.X	China P.R.	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
201310021592.0	China P.R.	Pending	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
13112368.4	Hong Kong	Pending	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
HK1129050	Hong Kong	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Germany	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Denmark	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	European Patent Convention	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
11159855.3	European Patent Convention	Pending	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013

EP1964432	Spain	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Finland	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	France	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Great Britain	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Greece	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Hungary	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Ireland	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
257240	India	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
1053/MUMNP/2013	India	Pending	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Italy	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
5006337	Japan	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
10-1058757	Republic of Korea	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Netherlands	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Poland	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Portugal	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Romania	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
EP1964432	Sweden	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
0601006459	Thailand	Pending	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
I449382	Taiwan	Granted	Methods and apparatus for communicating transmission backlog information	ATIS.3GPP.36.321V1080-2013
11/316,602	United States	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013

PI0620357-4	Brazil	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
2630505	Canada	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
CL46.184	Chile	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
ZL200680047709.0	China P.R.	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
09105697.6	Hong Kong	Pending	Communications method and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
06845800.9	European Patent Convention	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
1167/MUMNP/2008	India	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
2008-547438	Japan	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
5185450	Japan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
10-1157843	Republic of Korea	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
2010-7026283	Republic of Korea	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
2413389	Russian Federation	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
2498527	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
0601006460	Thailand	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
I449375	Taiwan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.300V1090-2013
11/316,602	United States	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
PI0620357-4	Brazil	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
2630505	Canada	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
CL46.184	Chile	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
ZL200680047709.0	China P.R.	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
09105697.6	Hong Kong	Pending	Communications method and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013

06845800.9	European Patent Convention	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
1167/MUMNP/2008	India	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
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5185450	Japan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
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2413389	Russian Federation	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
2498527	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
0601006460	Thailand	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
I449375	Taiwan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.331V1090-2013
11/316,602	United States	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
PI0620357-4	Brazil	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
2630505	Canada	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
CL46.184	Chile	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
ZL200680047709.0	China P.R.	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
09105697.6	Hong Kong	Pending	Communications method and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
06845800.9	European Patent Convention	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
1167/MUMNP/2008	India	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
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5185450	Japan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
10-1157843	Republic of Korea	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013

2010-7026283	Republic of Korea	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
2413389	Russian Federation	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
2498527	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
0601006460	Thailand	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
I449375	Taiwan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.413V1060-2013
11/316,602	United States	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
PI0620357-4	Brazil	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
2630505	Canada	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
CL46.184	Chile	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
ZL200680047709.0	China P.R.	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
09105697.6	Hong Kong	Pending	Communications method and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
06845800.9	European Patent Convention	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
1167/MUMNP/2008	India	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
2008-547438	Japan	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
5185450	Japan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
10-1157843	Republic of Korea	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
2010-7026283	Republic of Korea	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
2413389	Russian Federation	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
2498527	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
0601006460	Thailand	Pending	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
I449375	Taiwan	Granted	Communications methods and apparatus using physical attachment point identifiers	ATIS.3GPP.36.423V1050-2013
11/316,603	United States	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013

AR058644	Argentina	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Belgium	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Bulgaria	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
PI0620304-3	Brazil	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
13/332,210	United States	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
2630585	Canada	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
ZL200680047729.8	China P.R.	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
201310467133.5	China P.R.	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Czech Republic	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Germany	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	European Patent Convention	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Spain	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Finland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	France	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
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EP1964339	Ireland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
1078/MUMNP/2008	India	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Italy	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
4733190	Japan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
10-1312218	Republic of Korea	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
2010-7024607	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
2014-7002708	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
2012-7019711	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Netherlands	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Poland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Romania	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
2419230	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
EP1964339	Sweden	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
143525	Singapore	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
I420854	Taiwan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.300V1090-2013
11/316,603	United States	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
AR058644	Argentina	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	Belgium	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	Bulgaria	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
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2630585	Canada	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
ZL200680047729.8	China P.R.	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
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EP1964339	Czech Republic	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013

EP1964339	Germany	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	European Patent Convention	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
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EP1964339	Ireland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
1078/MUMNP/2008	India	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	Italy	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
4733190	Japan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
10-1312218	Republic of Korea	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
2010-7024607	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
2014-7002708	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
2012-7019711	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	Netherlands	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	Poland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	Romania	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
2419230	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
EP1964339	Sweden	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
143525	Singapore	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
I420854	Taiwan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.331V1090-2013
11/316,603	United States	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
AR058644	Argentina	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
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13/332,210	United States	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
2630585	Canada	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
ZL200680047729.8	China P.R.	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
201310467133.5	China P.R.	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Czech Republic	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Germany	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	European Patent Convention	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Spain	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Finland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	France	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Great Britain	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Hungary	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Ireland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
1078/MUMNP/2008	India	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013

EP1964339	Italy	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
4733190	Japan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
10-1312218	Republic of Korea	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
2010-7024607	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
2014-7002708	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
2012-7019711	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Netherlands	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Poland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Romania	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
2419230	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
EP1964339	Sweden	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
143525	Singapore	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
I420854	Taiwan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.413V1060-2013
11/316,603	United States	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
AR058644	Argentina	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Belgium	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Bulgaria	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
PI0620304-3	Brazil	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
13/332,210	United States	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
2630585	Canada	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
ZL200680047729.8	China P.R.	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
201310467133.5	China P.R.	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Czech Republic	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Germany	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	European Patent Convention	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Spain	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Finland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	France	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Great Britain	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Hungary	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Ireland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
1078/MUMNP/2008	India	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Italy	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
4733190	Japan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
10-1312218	Republic of Korea	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
2010-7024607	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
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2012-7019711	Republic of Korea	Pending	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Netherlands	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Poland	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Romania	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013

2419230	Russian Federation	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
EP1964339	Sweden	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
143525	Singapore	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
I420854	Taiwan	Granted	Method and apparatus for end node assisted neighbor discovery	ATIS.3GPP.36.423V1050-2013
11/333,792	United States	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
AR058637	Argentina	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
AR080582B2	Argentina	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
ZL200680048113.2	China P.R.	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
201210086626.X	China P.R.	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
UNKNOWN	Hong Kong	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2346298	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013

EP2129186	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2346298	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
HK1160335	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
HK1136924	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
HK1138142	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013

EP1969889	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2346298	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
HK1126347	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
258759	India	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
1530/MUMNP/2013	India	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
5096367	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013

5301714	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
1011955	Republic of Korea	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1969889	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129185	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2129186	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
0601006461	Thailand	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
095148195	Taiwan	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
11/333,792	United States	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013

AR058637	Argentina	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
AR080582B2	Argentina	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
ZL200680048113.2	China P.R.	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
201210086626.X	China P.R.	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
UNKNOWN	Hong Kong	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2346298	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013

EP2129186	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2346298	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
HK1160335	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
HK1136924	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
HK1138142	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2346298	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013

EP2129186	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
HK1126347	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
258759	India	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
1530/MUMNP/2013	India	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
5096367	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
5301714	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
1011955	Republic of Korea	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013

EP2129185	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1969889	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129185	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2129186	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
0601006461	Thailand	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
095148195	Taiwan	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
11/333,792	United States	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
AR058637	Argentina	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
AR080582B2	Argentina	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013

EP2129185	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
ZL200680048113.2	China P.R.	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
201210086626.X	China P.R.	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Hong Kong	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2346298	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2346298	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013

HK1160335	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
HK1136924	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
HK1138142	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2346298	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013

EP2129186	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
HK1126347	Hong Kong	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
258759	India	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
1530/MUMNP/2013	India	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
5096367	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
5301714	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
1011955	Republic of Korea	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013

EP2129185	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1969889	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129185	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2129186	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
0601006461	Thailand	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
095148195	Taiwan	Pending	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
11/610,060	United States	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Belgium	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Bulgaria	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
ZL200680052968.2	China P.R.	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
201210264026.8	China P.R.	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
13105708.7	Hong Kong	Pending	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Czech Republic	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013

EP1980126	Germany	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	European Patent Convention	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Spain	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Finland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	France	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Great Britain	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
HK1122683	Hong Kong	Granted	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Hungary	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Ireland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
1439/MUMNP/2008	India	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
1588/MUMNP/2013	India	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Italy	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
5265386	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
5524286	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
5628362	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
1013348	Republic of Korea	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Netherlands	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Poland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Romania	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013
EP1980126	Sweden	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.321V1080-2013

095148273	Taiwan	Pending	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.36.331V1080-2013
11/610,060	United States	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Belgium	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
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13105708.7	Hong Kong	Pending	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Czech Republic	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
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EP1980126	European Patent Convention	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
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EP1980126	France	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
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HK1122683	Hong Kong	Granted	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Hungary	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Ireland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
1439/MUMNP/2008	India	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
1588/MUMNP/2013	India	Pending	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Italy	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013

5265386	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
5524286	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
5628362	Japan	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
1013348	Republic of Korea	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Netherlands	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Poland	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Romania	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
EP1980126	Sweden	Granted	Methods and apparatus related to selecting reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
095148273	Taiwan	Pending	Methods and apparatus related to selecting a reporting alternative in a request report	ATIS.3GPP.36.331V1090-2013
11/609,627	United States	Pending	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
ZL200680048110.9	China P.R.	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
EP1967034	Germany	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
EP1967034	European Patent Convention	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
EP1967034	Great Britain	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
HK1123430	Hong Kong	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
1162/MUMNP/2008	India	Pending	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
4976418	Japan	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
956259	Republic of Korea	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
I413423	Taiwan	Granted	Methods and apparatus related to selecting a request group for a request report	ATIS.3GPP.36.321V1080-2013
11/486,601	United States	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013

ZL200680048038.X	China P.R.	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201210122256.0	China P.R.	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
06845871.0	European Patent Convention	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10157769.0	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10111235.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10162312.2	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11100617.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10162311.4	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11100614.3	Hong Kong	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
14194480.1	European Patent Convention	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
09101895.5	Hong Kong	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
259268	India	Granted	Method and apparatus for efficient reporting of information in a wireless communication system and a terminal thereof	ATIS.3GPP.36.211V1070-2013
1002/MUMNP/2013	India	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5107935	Japan	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1060535	Republic of Korea	Granted	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
095148274	Taiwan	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11/486,601	United States	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
ZL200680048038.X	China P.R.	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
201210122256.0	China P.R.	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
06845871.0	European Patent Convention	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013

10157769.0	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10111235.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10162312.2	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
11100617.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10162311.4	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
11100614.3	Hong Kong	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
14194480.1	European Patent Convention	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
09101895.5	Hong Kong	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
259268	India	Granted	Method and apparatus for efficient reporting of information in a wireless communication system and a terminal thereof	ATIS.3GPP.36.212V1070-2013
1002/MUMNP/2013	India	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5107935	Japan	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1060535	Republic of Korea	Granted	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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11/486,601	United States	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200680048038.X	China P.R.	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201210122256.0	China P.R.	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
06845871.0	European Patent Convention	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10157769.0	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10111235.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10162312.2	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013

11100617.0	Hong Kong	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10162311.4	European Patent Convention	Pending	Method and apparatus for reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11100614.3	Hong Kong	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
14194480.1	European Patent Convention	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
09101895.5	Hong Kong	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
259268	India	Granted	Method and apparatus for efficient reporting of information in a wireless communication system and a terminal thereof	ATIS.3GPP.36.213V1070-2013
1002/MUMNP/2013	India	Pending	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5107935	Japan	Granted	Method and apparatus for efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1060535	Republic of Korea	Granted	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
095148274	Taiwan	Pending	Efficient reporting of information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11/486,895	United States	Pending	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Belgium	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Bulgaria	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
ZL200680047857.2	China P.R.	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Czech Republic	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Germany	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	European Patent Convention	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Spain	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Finland	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	France	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Great Britain	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
HK1124198	Hong Kong	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Hungary	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Ireland	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
1482/MUMNP/2008	India	Pending	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Italy	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
4950217	Japan	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
993746	Republic of Korea	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Netherlands	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Poland	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
EP1969891	Romania	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013

EP1969891	Sweden	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
I420924	Taiwan	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.211V1070-2013
11/486,895	United States	Pending	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Belgium	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Bulgaria	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
ZL200680047857.2	China P.R.	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Czech Republic	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Germany	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	European Patent Convention	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
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EP1969891	Finland	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	France	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Great Britain	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
HK1124198	Hong Kong	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Hungary	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Ireland	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
1482/MUMNP/2008	India	Pending	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Italy	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
4950217	Japan	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
993746	Republic of Korea	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
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EP1969891	Poland	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Romania	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
EP1969891	Sweden	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
I420924	Taiwan	Granted	Methods and apparatus for communicating control information	ATIS.3GPP.36.213V1070-2013
11/486,896	United States	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
ZL200680048326.5	China P.R.	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP1964437	Germany	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP2146538	Germany	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP1964437	European Patent Convention	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP2146538	European Patent Convention	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
HK1140354	Hong Kong	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP1964437	Spain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013

EP2146538	Spain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP1964437	France	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP2146538	France	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP1964437	Great Britain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP2146538	Great Britain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
HK1123915	Hong Kong	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
1385/MUMNP/2008	India	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP1964437	Italy	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
EP2146538	Italy	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
4950218	Japan	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
1027355	Republic of Korea	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
095148245	Taiwan	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
UNKNOWN	Taiwan	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.211V1070-2013
11/486,896	United States	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
ZL200680048326.5	China P.R.	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP1964437	Germany	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP2146538	Germany	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP1964437	European Patent Convention	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP2146538	European Patent Convention	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
HK1140354	Hong Kong	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013

EP1964437	Spain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP2146538	Spain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP1964437	France	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP2146538	France	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP1964437	Great Britain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP2146538	Great Britain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
HK1123915	Hong Kong	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
1385/MUMNP/2008	India	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP1964437	Italy	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
EP2146538	Italy	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
4950218	Japan	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
1027355	Republic of Korea	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
095148245	Taiwan	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Taiwan	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	ATIS.3GPP.36.213V1070-2013
11/486,896	United States	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
ZL200680048326.5	China P.R.	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP1964437	Germany	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP2146538	Germany	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP1964437	European Patent Convention	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP2146538	European Patent Convention	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004

HK1140354	Hong Kong	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP1964437	Spain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP2146538	Spain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP1964437	France	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP2146538	France	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP1964437	Great Britain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP2146538	Great Britain	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
HK1123915	Hong Kong	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
1385/MUMNP/2008	India	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP1964437	Italy	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
EP2146538	Italy	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
4950218	Japan	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
1027355	Republic of Korea	Granted	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
095148245	Taiwan	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
UNKNOWN	Taiwan	Pending	Methods and apparatus for communicating information utilizing a plurality of dictionaries	T1.3GPP.25.214V3120-2004
11/581,218	United States	Pending	Methods and apparatus related to selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Austria	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Belgium	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Switzerland	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
ZL200680047781.3	China P.R.	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013

201310365364.5	China P.R.	Pending	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
14102798.4	Hong Kong	Pending	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Germany	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Denmark	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	European Patent Convention	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
11165273.1	European Patent Convention	Pending	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
14184191.6	European Patent Convention	Pending	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
12100689.2	Hong Kong	Pending	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Spain	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Finland	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	France	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Great Britain	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Greece	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
HK1123432	Hong Kong	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Hungary	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Ireland	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
259548	India	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Italy	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
5074419	Japan	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
10-1062645	Republic of Korea	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013

EP1964434	Netherlands	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Norway	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Poland	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Portugal	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Romania	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1964434	Sweden	Granted	Methods and apparatus for selecting control channel reporting formats	ATIS.3GPP.36.213V1070-2013
095148230	Taiwan	Pending	Methods and Apparatus Related to Selecting Control Channel Reporting Formats	ATIS.3GPP.36.213V1070-2013
103136196	Taiwan	Pending	Methods and Apparatus Related to Selecting Control Channel Reporting Formats	ATIS.3GPP.36.213V1070-2013
11/581,212	United States	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
EP2203013	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Bulgaria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
200680047910.9	China P.R.	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
EP1974573	Czech Republic	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	European Patent Convention	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013

EP2203013	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
HK1144990	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
10162154.8	European Patent Convention	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
11100616.1	Hong Kong	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
EP1974573	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
HK1124715	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting	ATIS.3GPP.36.211V1070-2013
EP1974573	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
258542	India	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013

5074418	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
10-1050986	Republic of Korea	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
2010-7029922	Republic of Korea	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
EP1974573	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Norway	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Romania	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.211V1070-2013
EP2203013	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP1974573	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
EP2203013	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.211V1070-2013
I448169	Taiwan	Granted	Methods and Apparatus Related to Custom Control Channel Reporting Formats	ATIS.3GPP.36.211V1070-2013
11/581,212	United States	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
EP2203013	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Bulgaria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013

200680047910.9	China P.R.	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
EP1974573	Czech Republic	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	European Patent Convention	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
EP2203013	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
HK1144990	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
10162154.8	European Patent Convention	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
11100616.1	Hong Kong	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
EP1974573	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
HK1124715	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting	ATIS.3GPP.36.212V1070-2013
EP1974573	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013

EP2203013	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
258542	India	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
5074418	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
10-1050986	Republic of Korea	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
2010-7029922	Republic of Korea	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
EP1974573	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Norway	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Romania	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.212V1070-2013
EP2203013	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP1974573	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
EP2203013	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.212V1070-2013
I448169	Taiwan	Granted	Methods and Apparatus Related to Custom Control Channel Reporting Formats	ATIS.3GPP.36.212V1070-2013

11/581,212	United States	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP2203013	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Bulgaria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
200680047910.9	China P.R.	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1974573	Czech Republic	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	European Patent Convention	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP2203013	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
HK1144990	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
10162154.8	European Patent Convention	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
11100616.1	Hong Kong	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1974573	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013

EP1974573	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
HK1124715	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting	ATIS.3GPP.36.213V1070-2013
EP1974573	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
258542	India	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
5074418	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
10-1050986	Republic of Korea	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
2010-7029922	Republic of Korea	Pending	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP1974573	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Norway	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013

EP2203013	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Romania	Granted	Methods and apparatus related to custom control channel reporting formats	ATIS.3GPP.36.213V1070-2013
EP2203013	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP1974573	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
EP2203013	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	ATIS.3GPP.36.213V1070-2013
I448169	Taiwan	Granted	Methods and Apparatus Related to Custom Control Channel Reporting Formats	ATIS.3GPP.36.213V1070-2013
11/581,212	United States	Pending	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004
EP2203013	Austria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Belgium	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Bulgaria	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Switzerland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
200680047910.9	China P.R.	Pending	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004
EP1974573	Czech Republic	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Germany	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Denmark	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	European Patent Convention	Granted	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004
EP2203013	European Patent Convention	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
HK1144990	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004

10162154.8	European Patent Convention	Pending	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004
11100616.1	Hong Kong	Pending	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004
EP1974573	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Spain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Finland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	France	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Great Britain	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Greece	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
HK1124715	Hong Kong	Granted	Methods and apparatus related to custom control channel reporting	T1.3GPP.25.214V3120-2004
EP1974573	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Hungary	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Ireland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
258542	India	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Italy	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
5074418	Japan	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
10-1050986	Republic of Korea	Granted	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004

2010-7029922	Republic of Korea	Pending	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004
EP1974573	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Netherlands	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Norway	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Poland	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Portugal	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Romania	Granted	Methods and apparatus related to custom control channel reporting formats	T1.3GPP.25.214V3120-2004
EP2203013	Romania	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP1974573	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
EP2203013	Sweden	Granted	Methods and apparatus of implementing and/or using a dedicated control channel	T1.3GPP.25.214V3120-2004
I448169	Taiwan	Granted	Methods and Apparatus Related to Custom Control Channel Reporting Formats	T1.3GPP.25.214V3120-2004
11/333,813	United States	Pending	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Belgium	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Bulgaria	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
3606-2006	Chile	Pending	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
200680048285.X	China P.R.	Pending	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
201410134937.8	China P.R.	Pending	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Czech Republic	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Germany	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	European Patent Convention	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Spain	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Finland	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	France	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Great Britain	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Hungary	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Ireland	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
256602	India	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Italy	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013

4885980	Japan	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
968094	Republic of Korea	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Netherlands	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Poland	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Romania	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
EP1964431	Sweden	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
0601006462	Thailand	Pending	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
I414155	Taiwan	Granted	Methods and apparatus for flexible reporting of control information	ATIS.3GPP.36.213V1070-2013
8,514,771	United States	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
13/654,360	United States	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
200680047870.8	China P.R.	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
201310169327.7	China P.R.	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
06845858.7	European Patent Convention	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
1140/MUMNP/2008	India	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
2034/MUMNP/2012	India	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
4801172	Japan	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
5275413	Japan	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
1024517	Republic of Korea	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
10-1207821	Republic of Korea	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
I430601	Taiwan	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.133V10100-2013
8,514,771	United States	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
13/654,360	United States	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
200680047870.8	China P.R.	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
201310169327.7	China P.R.	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013

06845858.7	European Patent Convention	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
1140/MUMNP/2008	India	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
2034/MUMNP/2012	India	Pending	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
4801172	Japan	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
5275413	Japan	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
1024517	Republic of Korea	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
10-1207821	Republic of Korea	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
I430601	Taiwan	Granted	Methods and apparatus for communicating and/or using transmission power information	ATIS.3GPP.36.321V1080-2013
6,788,963	United States	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
I339080	Taiwan	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
6,788,963	United States	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
I339080	Taiwan	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
7,668,573	United States	Granted	Wireless timing and power control	ATIS.3GPP.36.304V1060-2013
8,620,332	United States	Granted	Wireless timing and power control	ATIS.3GPP.36.304V1060-2013
7,668,573	United States	Granted	Wireless timing and power control	ATIS.3GPP.36.321V1080-2013
8,620,332	United States	Granted	Wireless timing and power control	ATIS.3GPP.36.321V1080-2013
2534851	Canada	Granted	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
ZL03823477.7	China P.R.	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
201310053279.5	China P.R.	Pending	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
03785063.3	European Patent Convention	Pending	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
10010369.6	European Patent Convention	Pending	Methods and apparatus for implementing mobile communications systems	ATIS.3GPP.36.304V1060-2013
06103949.0	Hong Kong	Pending	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
213103	India	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
10-1102983	Republic of Korea	Granted	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013

2335864	Russian Federation	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
2005/01479	South Africa	Granted	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.304V1060-2013
2534851	Canada	Granted	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
ZL03823477.7	China P.R.	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
201310053279.5	China P.R.	Pending	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
03785063.3	European Patent Convention	Pending	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
10010369.6	European Patent Convention	Pending	Methods and apparatus for implementing mobile communications systems	ATIS.3GPP.36.321V1080-2013
06103949.0	Hong Kong	Pending	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
213103	India	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
10-1102983	Republic of Korea	Granted	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
2335864	Russian Federation	Granted	Methods and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
2005/01479	South Africa	Granted	Method and apparatus for operating mobile nodes in multiple states	ATIS.3GPP.36.321V1080-2013
11/686,951	United States	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0708952-0	Brazil	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2643512	Canada	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2823572	Canada	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2823573	Canada	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200780009731.0	China P.R.	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
07758841.6	European Patent Convention	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
09105090.9	Hong Kong	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00200803058	Indonesia	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
193629	Israel	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1864/MUMNP/2008	India	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013

2009-501685	Japan	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5497218	Japan	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1131753	Republic of Korea	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
303721	Mexico	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI20083250	Malaysia	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
20084392	Norway	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
570779	New Zealand	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-501962	Philippines	Pending	Grouping of users for MIMO Transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2390948	Russian Federation	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I360315	Taiwan	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
200812226	Ukraine	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-02358	Vietnam	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11/686,951	United States	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0708952-0	Brazil	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2643512	Canada	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2823572	Canada	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2823573	Canada	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
ZL200780009731.0	China P.R.	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
07758841.6	European Patent Convention	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
09105090.9	Hong Kong	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013

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10-1131753	Republic of Korea	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
303721	Mexico	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI20083250	Malaysia	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
20084392	Norway	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
570779	New Zealand	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2008-501962	Philippines	Pending	Grouping of users for MIMO Transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2390948	Russian Federation	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
I360315	Taiwan	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
200812226	Ukraine	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2008-02358	Vietnam	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.212V1070-2013
11/686,951	United States	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0708952-0	Brazil	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2643512	Canada	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2823572	Canada	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2823573	Canada	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013

ZL200780009731.0	China P.R.	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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W-00200803058	Indonesia	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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1864/MUMNP/2008	India	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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5497218	Japan	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1131753	Republic of Korea	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
303721	Mexico	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI20083250	Malaysia	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
20084392	Norway	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
570779	New Zealand	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2008-501962	Philippines	Pending	Grouping of users for MIMO Transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2390948	Russian Federation	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I360315	Taiwan	Granted	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200812226	Ukraine	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2008-02358	Vietnam	Pending	Grouping of users for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,059,609	United States	Granted	Resource allocation to support single-user and multi-user MIMO transmission	ATIS.3GPP.36.211V1070-2013
PI0708810-8	Brazil	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013

2643519	Canada	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
0717-2007	Chile	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
ZL200780010004.6	China P.R.	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
09105052.5	Hong Kong	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
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UNKNOWN	Indonesia	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
193680	Israel	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
260862	India	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
4944186	Japan	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
10-1161195	Republic of Korea	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
292625	Mexico	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
PI20083288	Malaysia	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
20084395	Norway	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
570794	New Zealand	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
1-2008-501946	Philippines	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
2406229	Russian Federation	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
200806600-3	Singapore	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
I355818	Taiwan	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
1-2008-02357	Vietnam	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.211V1070-2013
8,059,609	United States	Granted	Resource allocation to support single-user and multi-user MIMO transmission	ATIS.3GPP.36.212V1070-2013

PI0708810-8	Brazil	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
2643519	Canada	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
0717-2007	Chile	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
ZL200780010004.6	China P.R.	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
09105052.5	Hong Kong	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
07758846.5	European Patent Convention	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
UNKNOWN	Indonesia	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
193680	Israel	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
260862	India	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
4944186	Japan	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
10-1161195	Republic of Korea	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
292625	Mexico	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
PI20083288	Malaysia	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
20084395	Norway	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
570794	New Zealand	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
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I355818	Taiwan	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013
1-2008-02357	Vietnam	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.212V1070-2013

8,059,609	United States	Granted	Resource allocation to support single-user and multi-user MIMO transmission	ATIS.3GPP.36.213V1070-2013
PI0708810-8	Brazil	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
2643519	Canada	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
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ZL200780010004.6	China P.R.	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
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193680	Israel	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
260862	India	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
4944186	Japan	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
10-1161195	Republic of Korea	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
292625	Mexico	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
PI20083288	Malaysia	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
20084395	Norway	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
570794	New Zealand	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
1-2008-501946	Philippines	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
2406229	Russian Federation	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
200806600-3	Singapore	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
I355818	Taiwan	Granted	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013

1-2008-02357	Vietnam	Pending	Resource allocation to support single-user and multi-user MIMO transmissions	ATIS.3GPP.36.213V1070-2013
11/687,645	United States	Pending	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
AR061783	Argentina	Granted	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
200780009730.6	China P.R.	Pending	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
09107848.0	Hong Kong	Pending	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
EP1997289	Germany	Granted	Uplink channel estimation using a signal channel	ATIS.3GPP.36.211V1070-2013
EP1997289	European Patent Convention	Granted	Uplink channel estimation using a signal channel	ATIS.3GPP.36.211V1070-2013
EP1997289	Spain	Granted	Uplink channel estimation using a signal channel	ATIS.3GPP.36.211V1070-2013
EP1997289	France	Granted	Uplink channel estimation using a signal channel	ATIS.3GPP.36.211V1070-2013
EP1997289	Great Britain	Granted	Uplink channel estimation using a signal channel	ATIS.3GPP.36.211V1070-2013
4518/CHENP/2008	India	Pending	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
EP1997289	Italy	Granted	Uplink channel estimation using a signal channel	ATIS.3GPP.36.211V1070-2013
2009-501702	Japan	Pending	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
5619822	Japan	Granted	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
2014-006264	Japan	Pending	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
10-962460	Republic of Korea	Granted	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
I355819	Taiwan	Granted	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.211V1070-2013
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EP1997289	Spain	Granted	Uplink channel estimation using a signal channel	ATIS.3GPP.36.213V1070-2013
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I355819	Taiwan	Granted	Uplink channel estimation using a signaling channel	ATIS.3GPP.36.213V1070-2013
8,139,660	United States	Granted	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
P070101611	Argentina	Pending	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
ZL200780012615.4	China P.R.	Granted	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013

ZL201010255587.2	China P.R.	Granted	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
07760663.0	European Patent Convention	Pending	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
11164554.5	European Patent Convention	Pending	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
259471	India	Granted	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
5306991	Japan	Granted	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
993149	Republic of Korea	Granted	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
096113212	Taiwan	Pending	Methods and apparatus related to using a wireless terminal scrambling identifier	ATIS.3GPP.36.211V1070-2013
8,406,191	United States	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
13/773,453	United States	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
ZL200780008073.3	China P.R.	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
201410126192.0	China P.R.	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
07760679.6	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
11001823.1	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
4295/CHENP/2008	India	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
5642765	Japan	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
2014-167407	Japan	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
1299874	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
10-1281407	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
1299759	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.300V1090-2013
8,406,191	United States	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
13/773,453	United States	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
ZL200780008073.3	China P.R.	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
201410126192.0	China P.R.	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
07760679.6	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
11001823.1	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
4295/CHENP/2008	India	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
5642765	Japan	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
2014-167407	Japan	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
1299874	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
10-1281407	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
1299759	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.331V1090-2013
8,406,191	United States	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013

13/773,453	United States	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
ZL200780008073.3	China P.R.	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
201410126192.0	China P.R.	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
07760679.6	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
11001823.1	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
4295/CHENP/2008	India	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
5642765	Japan	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
2014-167407	Japan	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
1299874	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
10-1281407	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
1299759	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.413V1060-2013
8,406,191	United States	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
13/773,453	United States	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
ZL200780008073.3	China P.R.	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
201410126192.0	China P.R.	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
07760679.6	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
11001823.1	European Patent Convention	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
4295/CHENP/2008	India	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
5642765	Japan	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
2014-167407	Japan	Pending	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
1299874	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
10-1281407	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
1299759	Republic of Korea	Granted	Pseudo wires for mobility management	ATIS.3GPP.36.423V1050-2013
8,014,455	United States	Granted	Feedback of differentially encoded channel state information for multiple input multiple-output (MIMO) and subband scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
AR060166	Argentina	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Belgium	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Bulgaria	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0709079-0	Brazil	Pending	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,503,555	United States	Granted	Feedback of differentially encoded channel state information for multiple input multiple-output MIMO and subband scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2646504	Canada	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013

ZL200780011008.6	China P.R.	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1130588	Hong Kong	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Czech Republic	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Germany	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	European Patent Convention	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Spain	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Finland	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	France	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Great Britain	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Hungary	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Ireland	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
4803/CHENP/2008	India	Pending	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Italy	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5107998	Japan	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1008811	Republic of Korea	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Netherlands	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Poland	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Romania	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2457621	Russian Federation	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1999876	Sweden	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013

145961	Singapore	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I362847	Taiwan	Granted	Feedback of channel state information for MIMO and sub-band scheduling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11/686,953	United States	Pending	Apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2007226952	Australia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0708972-4	Brazil	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2643928	Canada	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
CL48.277	Chile	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200780009575.8	China P.R.	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1129021	Hong Kong	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
07758913.3	European Patent Convention	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00200803059	Indonesia	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
193681	Israel	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
260148	India	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
4965642	Japan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1026089	Republic of Korea	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
286800	Mexico	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
MY-143294-A	Malaysia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
20084394	Norway	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
570793	New Zealand	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-501921	Philippines	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013

2417551	Russian Federation	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
145971	Singapore	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1380721	Taiwan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
93082	Ukraine	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-02355	Vietnam	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11/686,953	United States	Pending	Apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2007226952	Australia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0708972-4	Brazil	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2643928	Canada	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
CL48.277	Chile	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
ZL200780009575.8	China P.R.	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
HK1129021	Hong Kong	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
07758913.3	European Patent Convention	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
W-00200803059	Indonesia	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
193681	Israel	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
260148	India	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
4965642	Japan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1026089	Republic of Korea	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
286800	Mexico	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
MY-143294-A	Malaysia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013

20084394	Norway	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
570793	New Zealand	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2008-501921	Philippines	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2417551	Russian Federation	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
145971	Singapore	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1380721	Taiwan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
93082	Ukraine	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2008-02355	Vietnam	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.212V1070-2013
11/686,953	United States	Pending	Apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2007226952	Australia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0708972-4	Brazil	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2643928	Canada	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
CL48.277	Chile	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200780009575.8	China P.R.	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1129021	Hong Kong	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07758913.3	European Patent Convention	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00200803059	Indonesia	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
193681	Israel	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
260148	India	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
4965642	Japan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013

1026089	Republic of Korea	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
286800	Mexico	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
MY-143294-A	Malaysia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
20084394	Norway	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
570793	New Zealand	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2008-501921	Philippines	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2417551	Russian Federation	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
145971	Singapore	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I380721	Taiwan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
93082	Ukraine	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2008-02355	Vietnam	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11/686,953	United States	Pending	Apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2007226952	Australia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0708972-4	Brazil	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2643928	Canada	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
CL48.277	Chile	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
ZL200780009575.8	China P.R.	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
HK1129021	Hong Kong	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
07758913.3	European Patent Convention	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
W-00200803059	Indonesia	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013

193681	Israel	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
260148	India	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
4965642	Japan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1026089	Republic of Korea	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
286800	Mexico	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
MY-143294-A	Malaysia	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
20084394	Norway	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
570793	New Zealand	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2008-501921	Philippines	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2417551	Russian Federation	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
145971	Singapore	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1380721	Taiwan	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
93082	Ukraine	Granted	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2008-02355	Vietnam	Pending	An apparatus and method for fast access in a wireless communication system	ATIS.3GPP.36.321V1080-2013
8,064,401	United States	Granted	Expedited handoff	ATIS.3GPP.36.300V1090-2013
8,838,109	United States	Granted	Expedited handoff	ATIS.3GPP.36.300V1090-2013
ZL200780026756.1	China P.R.	Granted	Expedited handoff	ATIS.3GPP.36.300V1090-2013
201310052367.3	China P.R.	Pending	Expedited handoff	ATIS.3GPP.36.300V1090-2013
13113807.1	Hong Kong	Pending	Expedited handoff	ATIS.3GPP.36.300V1090-2013
HK1133771	Hong Kong	Granted	Expedited handoff	ATIS.3GPP.36.300V1090-2013
07799600.7	European Patent Convention	Pending	Expedited handoff	ATIS.3GPP.36.300V1090-2013
7039/CHENP/2008	India	Pending	Expedited handoff	ATIS.3GPP.36.300V1090-2013
4938849	Japan	Granted	Expedited handoff	ATIS.3GPP.36.300V1090-2013
2012-037445	Japan	Pending	Expedited handoff	ATIS.3GPP.36.300V1090-2013
10-1115182	Republic of Korea	Granted	Methods and apparatus for mitigating handoff delay	ATIS.3GPP.36.300V1090-2013
10-1435995	Republic of Korea	Granted	Methods and apparatus for mitigating handoff delay	ATIS.3GPP.36.300V1090-2013
10-2013-7001310	Republic of Korea	Pending	Methods and apparatus for mitigating handoff delay	ATIS.3GPP.36.300V1090-2013

I380713	Taiwan	Granted	Expedited handoff	ATIS.3GPP.36.300V1090-2013
8,170,572	United States	Granted	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.321V1080-2013
200780012689.8	China P.R.	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.321V1080-2013
07760665.5	European Patent Convention	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.321V1080-2013
2280/MUMNP/2008	India	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.321V1080-2013
2009-505643	Japan	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.321V1080-2013
2012-248497	Japan	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.321V1080-2013
1032018	Republic of Korea	Granted	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.321V1080-2013
8,170,572	United States	Granted	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.323V1020-2013
200780012689.8	China P.R.	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.323V1020-2013
07760665.5	European Patent Convention	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.323V1020-2013
2280/MUMNP/2008	India	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.323V1020-2013
2009-505643	Japan	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.323V1020-2013
2012-248497	Japan	Pending	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.323V1020-2013
1032018	Republic of Korea	Granted	Methods and apparatus for supporting quality of service in communication systems	ATIS.3GPP.36.323V1020-2013
8,862,160	United States	Granted	Method and apparatus for paging terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
200780026811.7	China P.R.	Pending	Method and apparatus for quick-paging of terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
10100706.3	Hong Kong	Pending	Method and apparatus for quick-paging of terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
07812929.3	European Patent Convention	Pending	Method and apparatus for quick-paging of terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
10611/DELNP/2008	India	Pending	Method and apparatus for quick-paging of terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
5129250	Japan	Granted	Method and apparatus for quick-paging of terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013

2012-167483	Japan	Pending	Method and apparatus for quick-paging of terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
10-1054547	Republic of Korea	Granted	Method and apparatus for quick-paging of terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
1371180	Taiwan	Granted	Method and apparatus for paging terminals in a wireless communication system	ATIS.3GPP.36.300V1090-2013
7,869,421	United States	Granted	Uplink access request in an OFDM communication environment	ATIS.3GPP.36.211V1070-2013
12/958,676	United States	Pending	Uplink access request in an OFDM communication environment	ATIS.3GPP.36.211V1070-2013
ZL200780026748.7	China P.R.	Granted	Uplink access request in an OFDM communication environment	ATIS.3GPP.36.211V1070-2013
07812874.1	European Patent Convention	Pending	Uplink access request in an OFDM communication environment	ATIS.3GPP.36.211V1070-2013
7187/CHENP/2008	India	Pending	Uplink access request in an OFDM communication environment	ATIS.3GPP.36.211V1070-2013
5065389	Japan	Granted	Uplink access request in an OFDM communication environment	ATIS.3GPP.36.211V1070-2013
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10-1079387	Republic of Korea	Granted	Uplink access request in an OFDM communication environment	ATIS.3GPP.36.211V1070-2013
11/681,156	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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EP2178331	Austria	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
EP2170006	Austria	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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2011200721	Australia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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200780015475.6	China P.R.	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
09110632.4	Hong Kong	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
13/093,728	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013

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EP2170006	Greece	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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W-00201203118	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
W-00201203119	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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EP2170006	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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225615	Israel	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
5465/CHENP/2008	India	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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5323912	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
5323913	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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303639	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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MY-148152-A	Malaysia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
PI 2010001601	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
PI 2010001602	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
PI 2010001603	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
EP2027743	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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20084791	Norway	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
571686	New Zealand	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
1-2008-502316	Philippines	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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EP2170006	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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94104	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
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10264	Vietnam	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.211V1070-2013
11/681,156	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
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13/093,728	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
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5465/CHENP/2008	India	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
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EP2170006	Italy	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
5080560	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
5420617	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
5323912	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
5323913	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
10-2008-7029038	Republic of Korea	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
061180KRD1	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
10-1014948	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
10-1090597	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
280643	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
303639	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
301556	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
301557	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
MY-148152-A	Malaysia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
PI 2010001601	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
PI 2010001602	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
PI 2010001603	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2027743	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170007	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2178331	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170006	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
20084791	Norway	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
571686	New Zealand	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
1-2008-502316	Philippines	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2027743	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170007	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2178331	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170006	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170007	Portugal	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013

EP2178331	Portugal	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170006	Portugal	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2027743	Romania	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170007	Romania	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2178331	Romania	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170006	Romania	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
2420037	Russian Federation	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
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2526534	Russian Federation	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
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EP2170007	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2178331	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
EP2170006	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
200807593-9	Singapore	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
201103026-9	Singapore	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
I424775	Taiwan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
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102138810	Taiwan	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
102138813	Taiwan	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
94104	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
103183	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
100136	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
104855	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
10264	Vietnam	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.212V1070-2013
11/681,156	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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EP2170006	Austria	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2007244692	Australia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2011200721	Australia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2011200719	Australia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2011200725	Australia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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EP2170007	Belgium	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Belgium	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Belgium	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
PI0710838-9	Brazil	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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2733157	Canada	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2733276	Canada	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013

EP2170007	Switzerland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Switzerland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Switzerland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
1210-2007	Chile	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2086-2009	Chile	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2087-2009	Chile	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
2088-2009	Chile	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
200780015475.6	China P.R.	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
09110632.4	Hong Kong	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
13/093,728	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Denmark	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Denmark	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Denmark	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	European Patent Convention	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	European Patent Convention	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	European Patent Convention	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	European Patent Convention	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	Spain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Spain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Spain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Spain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	Finland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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EP2178331	Finland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Finland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Greece	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Greece	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Greece	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013

EP2170007	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
IDP0031637	Indonesia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
W-00201203120	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
W-00201203118	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
W-00201203119	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
194537	Israel	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
225615	Israel	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
5465/CHENP/2008	India	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2027743	Italy	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Italy	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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EP2170006	Italy	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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5323912	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
5323913	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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061180KRD1	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
10-1014948	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
10-1090597	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
280643	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
303639	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
301556	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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MY-148152-A	Malaysia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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PI 2010001602	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
PI 2010001603	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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EP2170007	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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571686	New Zealand	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
1-2008-502316	Philippines	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013

EP2027743	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170007	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2178331	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
EP2170006	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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2526051	Russian Federation	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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EP2170006	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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201103026-9	Singapore	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
I424775	Taiwan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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102138810	Taiwan	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
102138813	Taiwan	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
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103183	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
100136	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
104855	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
10264	Vietnam	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.213V1070-2013
11/681,156	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Austria	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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EP2170006	Austria	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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2011200719	Australia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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EP2178331	Belgium	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Belgium	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013

PI0710838-9	Brazil	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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2733157	Canada	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
2733276	Canada	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Switzerland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Switzerland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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2088-2009	Chile	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
200780015475.6	China P.R.	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
09110632.4	Hong Kong	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
13/093,728	United States	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Germany	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Denmark	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Denmark	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Denmark	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	European Patent Convention	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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EP2170006	European Patent Convention	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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EP2178331	Spain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Spain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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EP2178331	Finland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Finland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	France	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013

EP2170006	Great Britain	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Greece	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Greece	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Greece	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Hungary	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
IDP0031637	Indonesia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
W-00201203120	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
W-00201203118	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
W-00201203119	Indonesia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Ireland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
194537	Israel	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
225615	Israel	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
5465/CHENP/2008	India	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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EP2178331	Italy	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Italy	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
5080560	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
5420617	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
5323912	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
5323913	Japan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
10-2008-7029038	Republic of Korea	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
061180KRD1	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
10-1014948	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
10-1090597	Republic of Korea	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
280643	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
303639	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
301556	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
301557	Mexico	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
MY-148152-A	Malaysia	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
PI 2010001601	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
PI 2010001602	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
PI 2010001603	Malaysia	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013

EP2178331	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Netherlands	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
20084791	Norway	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
571686	New Zealand	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
1-2008-502316	Philippines	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Poland	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Portugal	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Portugal	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Portugal	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Romania	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
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EP2178331	Romania	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Romania	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
2420037	Russian Federation	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
2526051	Russian Federation	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
2526534	Russian Federation	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2027743	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170007	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2178331	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
EP2170006	Sweden	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
200807593-9	Singapore	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
201103026-9	Singapore	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
I424775	Taiwan	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
102138809	Taiwan	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
102138810	Taiwan	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
102138813	Taiwan	Pending	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
94104	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
103183	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
100136	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
104855	Ukraine	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
10264	Vietnam	Granted	Method and apparatus for enhanced paging	ATIS.3GPP.36.304V1060-2013
8,761,782	United States	Granted	Broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
P070101860	Argentina	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
PI0710829-0	Brazil	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
2649492	Canada	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
ZL200780015367.9	China P.R.	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
201210235957.5	China P.R.	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
13105128.9	Hong Kong	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013

07782941.4	European Patent Convention	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
11167656.5	European Patent Convention	Pending	A broadcast channel for E-Utra	ATIS.3GPP.36.300V1090-2013
262410	India	Granted	Facilitation of broadcast channel operation	ATIS.3GPP.36.300V1090-2013
5215291	Japan	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
2012-250204	Japan	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
10-1038172	Republic of Korea	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
10-1337205	Republic of Korea	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
10-1324297	Republic of Korea	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
2435320	Russian Federation	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
2011111214	Russian Federation	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
1387258	Taiwan	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.300V1090-2013
8,761,782	United States	Granted	Broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
P070101860	Argentina	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
PI0710829-0	Brazil	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
2649492	Canada	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
ZL200780015367.9	China P.R.	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
201210235957.5	China P.R.	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
13105128.9	Hong Kong	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
07782941.4	European Patent Convention	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
11167656.5	European Patent Convention	Pending	A broadcast channel for E-Utra	ATIS.3GPP.36.331V1090-2013
262410	India	Granted	Facilitation of broadcast channel operation	ATIS.3GPP.36.331V1090-2013
5215291	Japan	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
2012-250204	Japan	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
10-1038172	Republic of Korea	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
10-1337205	Republic of Korea	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
10-1324297	Republic of Korea	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
2435320	Russian Federation	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
2011111214	Russian Federation	Pending	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
1387258	Taiwan	Granted	A broadcast channel for E-UTRA	ATIS.3GPP.36.331V1090-2013
8,374,161	United States	Granted	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0714003-7	Brazil	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
2655031	Canada	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
2809100	Canada	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
200780025711.2	China P.R.	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
UNKNOWN	China P.R.	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013

09109479.2	Hong Kong	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
13/736,471	United States	Pending	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
07799376.4	European Patent Convention	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
W-00200900049	Indonesia	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
195790	Israel	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
6900/CHENP/2008	India	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
2009-519612	Japan	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
5456852	Japan	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
10-2009-7002372	Republic of Korea	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
10-1185878	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
10-1203591	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
10-1314724	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
287954	Mexico	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
PI 20085074	Malaysia	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
2009 0132	Norway	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
573498	New Zealand	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
1-2008-502738	Philippines	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
2414085	Russian Federation	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
096125004	Taiwan	Pending	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
200900927	Ukraine	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013

1-2009-00014	Vietnam	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.211V1070-2013
8,374,161	United States	Granted	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0714003-7	Brazil	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
2655031	Canada	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
2809100	Canada	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
200780025711.2	China P.R.	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
UNKNOWN	China P.R.	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
09109479.2	Hong Kong	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
13/736,471	United States	Pending	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
07799376.4	European Patent Convention	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
W-00200900049	Indonesia	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
195790	Israel	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
6900/CHENP/2008	India	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
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5456852	Japan	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
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10-1185878	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
10-1203591	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
10-1314724	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
287954	Mexico	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013

PI 20085074	Malaysia	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
2009 0132	Norway	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
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1-2008-502738	Philippines	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
2414085	Russian Federation	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
096125004	Taiwan	Pending	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
200900927	Ukraine	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
1-2009-00014	Vietnam	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.212V1070-2013
8,374,161	United States	Granted	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0714003-7	Brazil	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
2655031	Canada	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
2809100	Canada	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
200780025711.2	China P.R.	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
UNKNOWN	China P.R.	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
09109479.2	Hong Kong	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
13/736,471	United States	Pending	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07799376.4	European Patent Convention	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
W-00200900049	Indonesia	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
195790	Israel	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
6900/CHENP/2008	India	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013

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10-1203591	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
10-1314724	Republic of Korea	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
287954	Mexico	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
PI 20085074	Malaysia	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
2009 0132	Norway	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
573498	New Zealand	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
1-2008-502738	Philippines	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
2414085	Russian Federation	Granted	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
096125004	Taiwan	Pending	Method and apparatus for sending data and control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200900927	Ukraine	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
1-2009-00014	Vietnam	Pending	Dynamic frequency allocation and modulation scheme for control information	ATIS.3GPP.36.213V1070-2013
8,601,130	United States	Granted	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
PI0712317-5	Brazil	Pending	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
2651005	Canada	Granted	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
200780020741.4	China P.R.	Pending	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
09111866.9	Hong Kong	Pending	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014

07798236.1	European Patent Convention	Pending	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
918/DELNP/2009	India	Pending	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
5001360	Japan	Granted	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
10-1070128	Republic of Korea	Granted	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
2418371	Russian Federation	Granted	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
1355172	Taiwan	Granted	Propagating session state changes to network functions in an active set	ATIS.3GPP.24.008V1160-2014
8,738,056	United States	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0712104-0	Brazil	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2651399	Canada	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200780018669.1	China P.R.	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
07762293.4	European Patent Convention	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11186394.0	European Patent Convention	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
262445	India	Granted	A method for generating and transmitting acquisition points in a wireless communication system and an apparatus thereof	ATIS.3GPP.36.211V1070-2013
5043934	Japan	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2012-111719	Japan	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1062427	Republic of Korea	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2432699	Russian Federation	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
147548	Singapore	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
0701002541	Thailand	Pending	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1349454	Taiwan	Granted	Signal acquisition in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,780,936	United States	Granted	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI0712105-9	Brazil	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
2651398	Canada	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
200780018642.2	China P.R.	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
09108135.0	Hong Kong	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
07784040.3	European Patent Convention	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
09156760.2	European Patent Convention	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
10102621.1	Hong Kong	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
10189499.6	European Patent Convention	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
6177/CHENP/2008	India	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
2009-512264	Japan	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
2012-253153	Japan	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
10-1021406	Republic of Korea	Granted	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
10-1021388	Republic of Korea	Granted	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013

2419232	Russian Federation	Granted	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
201103345-3	Singapore	Pending	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
I374623	Taiwan	Granted	Signal acquisition for wireless communication systems	ATIS.3GPP.36.211V1070-2013
11/746,111	United States	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0712926-2	Brazil	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
2651490	Canada	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200780021743.5	China P.R.	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
09107169.1	Hong Kong	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
14/101,929	United States	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2039100	Germany	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2039100	European Patent Convention	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2039100	Spain	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2039100	France	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2039100	Great Britain	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
195131	Israel	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
6014/CHENP/2008	India	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2039100	Italy	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
5579434	Japan	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-044611	Japan	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1150610	Republic of Korea	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
290300	Mexico	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
2008 5246	Norway	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013

572603	New Zealand	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-5002560	Philippines	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
2435324	Russian Federation	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
I385989	Taiwan	Granted	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
200900214	Ukraine	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-02964	Vietnam	Pending	Preamble structure and acquisition for a wireless communication system	ATIS.3GPP.36.211V1070-2013
7,839,308	United States	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2008212793	Australia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0806973-5	Brazil	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2676054	Canada	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200880004426.7	China P.R.	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1138710	Hong Kong	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
08729460.9	European Patent Convention	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
IDP0029213	Indonesia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
199879	Israel	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
4405/CHENP/2009	India	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5199283	Japan	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2012-106747	Japan	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2012-106748	Japan	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1108339	Republic of Korea	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
299904	Mexico	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
MY-148817-A	Malaysia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-501420	Philippines	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2433569	Russian Federation	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
154098	Singapore	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I364933	Taiwan	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
94647	Ukraine	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11242	Vietnam	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.211V1070-2013
7,839,308	United States	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2008212793	Australia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0806973-5	Brazil	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2676054	Canada	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
ZL200880004426.7	China P.R.	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
HK1138710	Hong Kong	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
08729460.9	European Patent Convention	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013

IDP0029213	Indonesia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
199879	Israel	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
4405/CHENP/2009	India	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5199283	Japan	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2012-106747	Japan	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2012-106748	Japan	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1108339	Republic of Korea	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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2433569	Russian Federation	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
154098	Singapore	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
I364933	Taiwan	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
94647	Ukraine	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
11242	Vietnam	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.212V1070-2013
7,839,308	United States	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2008212793	Australia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0806973-5	Brazil	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2676054	Canada	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200880004426.7	China P.R.	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1138710	Hong Kong	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
08729460.9	European Patent Convention	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
IDP0029213	Indonesia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
199879	Israel	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
4405/CHENP/2009	India	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5199283	Japan	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2012-106747	Japan	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2012-106748	Japan	Pending	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1108339	Republic of Korea	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
299904	Mexico	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
MY-148817-A	Malaysia	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2009-501420	Philippines	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2433569	Russian Federation	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
154098	Singapore	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I364933	Taiwan	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
94647	Ukraine	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11242	Vietnam	Granted	Using codewords in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,134,952	United States	Granted	PN code based addressing methods and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
PI0712319-1	Brazil	Pending	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014

2648119	Canada	Pending	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
1657-2007	Chile	Pending	PN code based addressing methods and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
200780015399.9	China P.R.	Pending	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
EP2033414	Germany	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
EP2033414	European Patent Convention	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
EP2033414	Spain	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
EP2033414	France	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
EP2033414	Great Britain	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
260680	India	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
EP2033414	Italy	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
4955762	Japan	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
10-1164466	Republic of Korea	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
2420008	Russian Federation	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
I389508	Taiwan	Granted	PN code based addressing methods and apparatus for airlink communications	ATIS.3GPP.23.402V1160-2014
8,134,952	United States	Granted	PN code based addressing methods and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
PI0712319-1	Brazil	Pending	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
2648119	Canada	Pending	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
1657-2007	Chile	Pending	PN code based addressing methods and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
200780015399.9	China P.R.	Pending	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
EP2033414	Germany	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013

EP2033414	European Patent Convention	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
EP2033414	Spain	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
EP2033414	France	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
EP2033414	Great Britain	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
260680	India	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
EP2033414	Italy	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
4955762	Japan	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
10-1164466	Republic of Korea	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
2420008	Russian Federation	Granted	PN code based addressing methods, computer readable medium and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
I389508	Taiwan	Granted	PN code based addressing methods and apparatus for airlink communications	ATIS.3GPP.36.331V1090-2013
11/686,837	United States	Pending	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
PI0713033-3	Brazil	Pending	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
2652899	Canada	Pending	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
200780022706.6	China P.R.	Pending	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	Germany	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	European Patent Convention	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	Spain	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	Finland	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	France	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	Great Britain	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
6332/CHENP/2008	India	Pending	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	Italy	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
5118135	Japan	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
10-1118805	Republic of Korea	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	Netherlands	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
2425466	Russian Federation	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
EP2030410	Sweden	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
I383701	Taiwan	Granted	Discovery of neighbor cells	ATIS.3GPP.36.413V1060-2013
8,081,698	United States	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013

2007264972	Australia	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
PI0713435-5	Brazil	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
2653694	Canada	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
ZL200780023940.0	China P.R.	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
HK1132598	Hong Kong	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
07799193.3	European Patent Convention	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
IDP0032716	Indonesia	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
195606	Israel	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
6726/CHENP/2008	India	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
4976491	Japan	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
10-1067035	Republic of Korea	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
287739	Mexico	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
PI 20084832	Malaysia	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
PI 2010001711	Malaysia	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
PI 2010001710	Malaysia	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
PI 2010001709	Malaysia	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
2008 5248	Norway	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
573206	New Zealand	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
1-2009-500043	Philippines	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
2426240	Russian Federation	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013

148329	Singapore	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
I351187	Taiwan	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
95961	Ukraine	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
10770	Vietnam	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.211V1070-2013
8,081,698	United States	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
2007264972	Australia	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
PI0713435-5	Brazil	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
2653694	Canada	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
ZL200780023940.0	China P.R.	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
HK1132598	Hong Kong	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
07799193.3	European Patent Convention	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
IDP0032716	Indonesia	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
195606	Israel	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
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4976491	Japan	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
10-1067035	Republic of Korea	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
287739	Mexico	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
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PI 2010001711	Malaysia	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
PI 2010001710	Malaysia	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013

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573206	New Zealand	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
1-2009-500043	Philippines	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
2426240	Russian Federation	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
148329	Singapore	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
I351187	Taiwan	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
95961	Ukraine	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.212V1070-2013
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2007264972	Australia	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.213V1070-2013
PI0713435-5	Brazil	Pending	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.213V1070-2013
2653694	Canada	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.213V1070-2013
ZL200780023940.0	China P.R.	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.213V1070-2013
HK1132598	Hong Kong	Granted	Method and apparatus for selection mechanism between OFDM-MIMO and LFDM-SIMO	ATIS.3GPP.36.213V1070-2013
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8,374,200	United States	Granted	Methods and systems for processing overhead reduction for control channel packets	ATIS.3GPP.36.211V1070-2013
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11/775,198	United States	Pending	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.211V1070-2013
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EP2039027	Germany	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Denmark	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013

EP2039027	European Patent Convention	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
12198449.6	European Patent Convention	Pending	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
12198456.1	European Patent Convention	Pending	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Spain	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Finland	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	France	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Great Britain	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Greece	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Hungary	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
ID0028875	Indonesia	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Ireland	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
195946	Israel	Pending	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
262930	India	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Italy	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
5372749	Japan	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
5628240	Japan	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
2014-156623	Japan	Pending	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
10-1106393	Republic of Korea	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Liechtenstein	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
290150	Mexico	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
MY-144575-A	Malaysia	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Netherlands	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
20090133	Norway	Pending	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
573586	New Zealand	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
1-2009-500071	Philippines	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Poland	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Portugal	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Romania	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
2406230	Russian Federation	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
EP2039027	Sweden	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
148747	Singapore	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
I387224	Taiwan	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
93554	Ukraine	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
10399	Vietnam	Granted	Frequency hopping in an SC-FDMA environment	ATIS.3GPP.36.213V1070-2013
8,077,626	United States	Granted	Quality of service (QoS) aware establishment of communication sessions	ATIS.3GPP.24.930V1100-2014
7186/CHENP/2008	India	Pending	Quality of service (QoS) aware establishment of communication sessions	ATIS.3GPP.24.930V1100-2014
2009-520903	Japan	Pending	Quality of service (QoS) aware establishment of communication sessions	ATIS.3GPP.24.930V1100-2014

10-2009-7003042	Republic of Korea	Pending	Quality of service (QoS) aware establishment of communication sessions	ATIS.3GPP.24.930V1100-2014
8,369,424	United States	Granted	Frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0715472-0	Brazil	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2657398	Canada	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200780026391.2	China P.R.	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10100110.3	Hong Kong	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,855,225	United States	Granted	Frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2047709	Germany	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2047709	European Patent Convention	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2047709	Spain	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2047709	France	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2047709	Great Britain	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00200900119	Indonesia	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
195944	Israel	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10673/DELNP/2008	India	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2047709	Italy	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2009-520946	Japan	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5551280	Japan	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1062428	Republic of Korea	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
292118	Mexico	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013

EP2047709	Netherlands	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2009 0134	Norway	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
573658	New Zealand	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2008-502831	Philippines	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2407230	Russian Federation	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I353125	Taiwan	Granted	Frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
92958	Ukraine	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-00035	Vietnam	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,369,424	United States	Granted	Frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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EP2047709	European Patent Convention	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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EP2047709	France	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2047709	Great Britain	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
W-00200900119	Indonesia	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013

195944	Israel	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10673/DELNP/2008	India	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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10-1062428	Republic of Korea	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
292118	Mexico	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2047709	Netherlands	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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2657398	Canada	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200780026391.2	China P.R.	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10100110.3	Hong Kong	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013

8,855,225	United States	Granted	Frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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EP2047709	European Patent Convention	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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10673/DELNP/2008	India	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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10-1062428	Republic of Korea	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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573658	New Zealand	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2008-502831	Philippines	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2407230	Russian Federation	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I353125	Taiwan	Granted	Frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013

92958	Ukraine	Granted	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2009-00035	Vietnam	Pending	Method and apparatus for frequency selective and frequency diversity transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,000,326	United States	Granted	Method and apparatus for fragmenting a control message in a wireless communication system	ATIS.3GPP.36.212V1070-2013
ZL200880003797.3	China P.R.	Granted	Method and apparatus for fragmenting a control message in a wireless communication system	ATIS.3GPP.36.212V1070-2013
13152058.7	European Patent Convention	Pending	Method and apparatus for fragmenting a control message in a wireless communication system	ATIS.3GPP.36.212V1070-2013
3961/CHENP/2009	India	Pending	Method and apparatus for fragmenting a control message in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5096495	Japan	Granted	Method and apparatus for fragmenting a control message in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1109376	Republic of Korea	Granted	Method and apparatus for fragmenting a control message in a wireless communication system	ATIS.3GPP.36.212V1070-2013
097104111	Taiwan	Pending	Method and apparatus for fragmenting a control message in a wireless communication system	ATIS.3GPP.36.212V1070-2013
11/781,925	United States	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Austria	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
2007276772	Australia	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Belgium	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0714676-0	Brazil	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
2658522	Canada	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Switzerland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200780034642.1	China P.R.	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
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14106508.6	Hong Kong	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
10103361.3	Hong Kong	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Germany	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Denmark	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	European Patent Convention	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Spain	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Finland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	France	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Great Britain	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Greece	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Hungary	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
ID0027895	Indonesia	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Ireland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
196150	Israel	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013

97/DELNP/2009	India	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Italy	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
5016044	Japan	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1066689	Republic of Korea	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
291616	Mexico	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
MY-145484-A	Malaysia	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Netherlands	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
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EP2044795	Poland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Portugal	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Romania	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
2417559	Russian Federation	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2044795	Sweden	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
149365	Singapore	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
I353149	Taiwan	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
94274	Ukraine	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
10911	Vietnam	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.211V1070-2013
11/781,925	United States	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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EP2044795	Belgium	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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14106508.6	Hong Kong	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
10103361.3	Hong Kong	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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EP2044795	Denmark	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2044795	European Patent Convention	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2044795	Spain	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2044795	Finland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2044795	France	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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196150	Israel	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
97/DELNP/2009	India	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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EP2044795	Netherlands	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
20090147	Norway	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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1-2009-500077	Philippines	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2044795	Poland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2044795	Portugal	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP2044795	Romania	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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EP2044795	Sweden	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
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I353149	Taiwan	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
94274	Ukraine	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
10911	Vietnam	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.212V1070-2013
11/781,925	United States	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
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EP2044795	Belgium	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
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2658522	Canada	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	Switzerland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
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EP2044795	Germany	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	Denmark	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	European Patent Convention	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	Spain	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	Finland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	France	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	Great Britain	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	Greece	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2044795	Hungary	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
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EP2044795	Ireland	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
196150	Israel	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
97/DELNP/2009	India	Pending	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
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291616	Mexico	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
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10911	Vietnam	Granted	Variable control channel for a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,477,593	United States	Granted	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0714370-2	Brazil	Pending	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2658280	Canada	Pending	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2730345	Canada	Granted	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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09108613.1	Hong Kong	Pending	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
12/843,451	United States	Granted	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
07840565.1	European Patent Convention	Pending	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
13190952.5	European Patent Convention	Pending	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
399/CHENP/2009	India	Pending	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013

5185268	Japan	Granted	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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2407176	Russian Federation	Granted	Method and apparatus for sending signaling for data transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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I382698	Taiwan	Granted	Method and Apparatus for Sending Signaling for Data Transmission in a Wireless Communication System	ATIS.3GPP.36.211V1070-2013
8,295,243	United States	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
2007286780	Australia	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
2011204876	Australia	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
PI0715661-8	Brazil	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
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2659462	Canada	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
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201310334444.4	China P.R.	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
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HK1134200	Hong Kong	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
07814307.0	European Patent Convention	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
ID0029775	Indonesia	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013

W-00201103595	Indonesia	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
196710	Israel	Granted	Apparatus, methods, and machine-readable medium for random access in an orthogonal multiple-access wireless communication system	ATIS.3GPP.36.211V1070-2013
223730	Israel	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
661/DELNP/2009	India	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
5086349	Japan	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
5539451	Japan	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
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10-1077970	Republic of Korea	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
293061	Mexico	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
298206	Mexico	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
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607339	New Zealand	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
607340	New Zealand	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
1-2009-500248	Philippines	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
1-2011-502062	Philippines	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013

2417550	Russian Federation	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
2452139	Russian Federation	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
2491794	Russian Federation	Granted	A method and apparatus for access procedure for orthogonal multiple access systems	ATIS.3GPP.36.211V1070-2013
150000	Singapore	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
I370633	Taiwan	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
99442	Ukraine	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
103926	Ukraine	Granted	A method and apparatus for access procedure for orthogonal multiple access systems	ATIS.3GPP.36.211V1070-2013
11296	Vietnam	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
1-2012-01518	Vietnam	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.211V1070-2013
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150000	Singapore	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.213V1070-2013
I370633	Taiwan	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.213V1070-2013
99442	Ukraine	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.213V1070-2013
103926	Ukraine	Granted	A method and apparatus for access procedure for orthogonal multiple access systems	ATIS.3GPP.36.213V1070-2013
11296	Vietnam	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.213V1070-2013
1-2012-01518	Vietnam	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.213V1070-2013
8,295,243	United States	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2007286780	Australia	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2011204876	Australia	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
PI0715661-8	Brazil	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
13/622,990	United States	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013

14/159,853	United States	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2659462	Canada	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2766267	Canada	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
ZL200780030971.9	China P.R.	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
201310334444.4	China P.R.	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
14106507.7	Hong Kong	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
HK1134200	Hong Kong	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
07814307.0	European Patent Convention	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
ID0029775	Indonesia	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
W-00201103595	Indonesia	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
196710	Israel	Granted	Apparatus, methods, and machine-readable medium for random access in an orthogonal multiple-access wireless communication system	ATIS.3GPP.36.321V1080-2013
223730	Israel	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
661/DELNP/2009	India	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
5086349	Japan	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
5539451	Japan	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2014-046790	Japan	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2014-046791	Japan	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
10-1077970	Republic of Korea	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
293061	Mexico	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
298206	Mexico	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013

PI 20090338	Malaysia	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
PI 2014002637	Malaysia	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
20090535	Norway	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
574387	New Zealand	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
596472	New Zealand	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
607339	New Zealand	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
607340	New Zealand	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
1-2009-500248	Philippines	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
1-2011-502062	Philippines	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2417550	Russian Federation	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2452139	Russian Federation	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
2491794	Russian Federation	Granted	A method and apparatus for access procedure for orthogonal multiple access systems	ATIS.3GPP.36.321V1080-2013
150000	Singapore	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
I370633	Taiwan	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
99442	Ukraine	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
103926	Ukraine	Granted	A method and apparatus for access procedure for orthogonal multiple access systems	ATIS.3GPP.36.321V1080-2013
11296	Vietnam	Granted	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
1-2012-01518	Vietnam	Pending	Method and apparatus for random access in an orthogonal multiple-access communication system	ATIS.3GPP.36.321V1080-2013
8,655,396	United States	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
2007316434	Australia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013

PI0717953-7	Brazil	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
2667096	Canada	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
2797739	Canada	Pending	Method and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with par considerations	ATIS.3GPP.36.211V1070-2013
ZL200780041327.1	China P.R.	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
201410456901.1	China P.R.	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
10102530.1	Hong Kong	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
EP2115887	Germany	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
EP2115887	European Patent Convention	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
EP2115887	Great Britain	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
IDP0030927	Indonesia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
198233	Israel	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
2529/DELNP/2009	India	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
5384357	Japan	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
5453369	Japan	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
10-1122384	Republic of Korea	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
300558	Mexico	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
MY-147174-A	Malaysia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
20092157	Norway	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
576255	New Zealand	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
1-2009-500818	Philippines	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013

2437212	Russian Federation	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
151817	Singapore	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
096141948	Taiwan	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
96960	Ukraine	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
1-2009-01202	Vietnam	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.211V1070-2013
8,655,396	United States	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
2007316434	Australia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
PI0717953-7	Brazil	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
2667096	Canada	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
2797739	Canada	Pending	Method and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with par considerations	ATIS.3GPP.36.212V1070-2013
ZL200780041327.1	China P.R.	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
201410456901.1	China P.R.	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
10102530.1	Hong Kong	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
EP2115887	Germany	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
EP2115887	European Patent Convention	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
EP2115887	Great Britain	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
IDP0030927	Indonesia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
198233	Israel	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
2529/DELNP/2009	India	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
5384357	Japan	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013

5453369	Japan	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
10-1122384	Republic of Korea	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
300558	Mexico	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
MY-147174-A	Malaysia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
20092157	Norway	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
576255	New Zealand	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
1-2009-500818	Philippines	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
2437212	Russian Federation	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
151817	Singapore	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
096141948	Taiwan	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
96960	Ukraine	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
1-2009-01202	Vietnam	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.212V1070-2013
8,655,396	United States	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
2007316434	Australia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
PI0717953-7	Brazil	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
2667096	Canada	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
2797739	Canada	Pending	Method and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with par considerations	ATIS.3GPP.36.213V1070-2013
ZL200780041327.1	China P.R.	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
201410456901.1	China P.R.	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
10102530.1	Hong Kong	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013

EP2115887	Germany	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
EP2115887	European Patent Convention	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
EP2115887	Great Britain	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
IDP0030927	Indonesia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
198233	Israel	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
2529/DELNP/2009	India	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
5384357	Japan	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
5453369	Japan	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
10-1122384	Republic of Korea	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
300558	Mexico	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
MY-147174-A	Malaysia	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
20092157	Norway	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
576255	New Zealand	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
1-2009-500818	Philippines	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
2437212	Russian Federation	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
151817	Singapore	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
096141948	Taiwan	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
96960	Ukraine	Granted	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
1-2009-01202	Vietnam	Pending	Methods and apparatus for power allocation and/or rate selection for UL MIMO/SIMO operations with PAR considerations	ATIS.3GPP.36.213V1070-2013
8,625,601	United States	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013

2007285802	Australia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Belgium	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Bulgaria	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
PI0716618-4	Brazil	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
2658583	Canada	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
ZL200780030600.0	China P.R.	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
10101194.0	Hong Kong	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Czech Republic	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Germany	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	European Patent Convention	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Spain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Finland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	France	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Great Britain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Hungary	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
IDP0028425	Indonesia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Ireland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
196611	Israel	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
614/DELNP/2009	India	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Italy	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013

4971446	Japan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
10-1073210	Republic of Korea	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
286349	Mexico	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
PI20090285	Malaysia	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Netherlands	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
20090538	Norway	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
574318	New Zealand	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
1-2009-500187	Philippines	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Poland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Romania	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
2436247	Russian Federation	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
EP2087633	Sweden	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
150004	Singapore	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
I373940	Taiwan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
95114	Ukraine	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
1-2009-00406	Vietnam	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	ATIS.3GPP.36.300V1090-2013
8,625,601	United States	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
2007285802	Australia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Belgium	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Bulgaria	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004

PI0716618-4	Brazil	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
2658583	Canada	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
ZL200780030600.0	China P.R.	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
10101194.0	Hong Kong	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Czech Republic	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Germany	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	European Patent Convention	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Spain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Finland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	France	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Great Britain	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Hungary	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
IDP0028425	Indonesia	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Ireland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
196611	Israel	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
614/DELNP/2009	India	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Italy	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
4971446	Japan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
10-1073210	Republic of Korea	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
286349	Mexico	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004

PI20090285	Malaysia	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Netherlands	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
20090538	Norway	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
574318	New Zealand	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
1-2009-500187	Philippines	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Poland	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Romania	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
2436247	Russian Federation	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
EP2087633	Sweden	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
150004	Singapore	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
I373940	Taiwan	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
95114	Ukraine	Granted	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
1-2009-00406	Vietnam	Pending	Method and apparatus for low-overhead packet data transmission and control of reception mode	T1.3GPP.25.214V3120-2004
8,699,587	United States	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0715897-1	Brazil	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2658346	Canada	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
200780030599.1	China P.R.	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
09110630.6	Hong Kong	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
07814155.3	European Patent Convention	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
14176957.0	European Patent Convention	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013

397/CHENP/2009	India	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5442437	Japan	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2012-278009	Japan	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1073339	Republic of Korea	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2419214	Russian Federation	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
149463	Singapore	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
I373241	Taiwan	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.212V1070-2013
8,699,587	United States	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0715897-1	Brazil	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2658346	Canada	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200780030599.1	China P.R.	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
09110630.6	Hong Kong	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07814155.3	European Patent Convention	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
14176957.0	European Patent Convention	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
397/CHENP/2009	India	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5442437	Japan	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2012-278009	Japan	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1073339	Republic of Korea	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2419214	Russian Federation	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
149463	Singapore	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013

I373241	Taiwan	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,699,587	United States	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
PI0715897-1	Brazil	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
2658346	Canada	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
200780030599.1	China P.R.	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
09110630.6	Hong Kong	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
07814155.3	European Patent Convention	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
14176957.0	European Patent Convention	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
397/CHENP/2009	India	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
5442437	Japan	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
2012-278009	Japan	Pending	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
10-1073339	Republic of Korea	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
2419214	Russian Federation	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
149463	Singapore	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
I373241	Taiwan	Granted	Feedback of precoding control indication (PCI) and channel quality indication (CQI) in a wireless communication system	T1.3GPP.25.212V3110-2003
8,174,995	United States	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
PI0715662-6	Brazil	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
2658832	Canada	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
ZL200780030981.2	China P.R.	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
10101193.1	Hong Kong	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
07841139.4	European Patent Convention	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
W-00200900430	Indonesia	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
196648	Israel	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
691/DELNP/2009	India	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
2009-525731	Japan	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
5415567	Japan	Granted	A method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013

2013-183476	Japan	Pending	A method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
10-1066699	Republic of Korea	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
295417	Mexico	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
PI20090311	Malaysia	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
20090537	Norway	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
574353	New Zealand	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
2427093	Russian Federation	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
I354465	Taiwan	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
1-2009-00409	Vietnam	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.211V1070-2013
8,174,995	United States	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
PI0715662-6	Brazil	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
2658832	Canada	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
ZL200780030981.2	China P.R.	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
10101193.1	Hong Kong	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
07841139.4	European Patent Convention	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
W-00200900430	Indonesia	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
196648	Israel	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
691/DELNP/2009	India	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
2009-525731	Japan	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
5415567	Japan	Granted	A method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
2013-183476	Japan	Pending	A method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
10-1066699	Republic of Korea	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
295417	Mexico	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
PI20090311	Malaysia	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
20090537	Norway	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
574353	New Zealand	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
2427093	Russian Federation	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
I354465	Taiwan	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
1-2009-00409	Vietnam	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.212V1070-2013
8,174,995	United States	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
PI0715662-6	Brazil	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
2658832	Canada	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
ZL200780030981.2	China P.R.	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
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07841139.4	European Patent Convention	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
W-00200900430	Indonesia	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
196648	Israel	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
691/DELNP/2009	India	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
2009-525731	Japan	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
5415567	Japan	Granted	A method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
2013-183476	Japan	Pending	A method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013

10-1066699	Republic of Korea	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
295417	Mexico	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
PI20090311	Malaysia	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
20090537	Norway	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
574353	New Zealand	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
2427093	Russian Federation	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
I354465	Taiwan	Granted	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
1-2009-00409	Vietnam	Pending	Method and apparatus for flexible pilot pattern	ATIS.3GPP.36.213V1070-2013
8,848,618	United States	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
2007286627	Australia	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
PI0715663-4	Brazil	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
200780030873.5	China P.R.	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
10101192.2	Hong Kong	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
IDP0032229	Indonesia	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
196711	Israel	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
689/DELNP/2009	India	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
2009-525772	Japan	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
2012-287014	Japan	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
10-1168475	Republic of Korea	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
292643	Mexico	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
PI 20090339	Malaysia	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
20090534	Norway	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
574388	New Zealand	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
1-2009-500247	Philippines	Pending	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013

2413374	Russian Federation	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
150033	Singapore	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
096131113	Taiwan	Pending	Semi-Persistent Scheduling For Traffic Spurts in Wireless Communication	ATIS.3GPP.36.321V1080-2013
93732	Ukraine	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
10989	Vietnam	Granted	Semi-persistent scheduling for traffic spurts in wireless communication	ATIS.3GPP.36.321V1080-2013
8,223,625	United States	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
2007286589	Australia	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
PI0715666-9	Brazil	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
2659466	Canada	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
ZL200780031299.5	China P.R.	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
201310308680.9	China P.R.	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
14106505.9	Hong Kong	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
HK1134180	Hong Kong	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
07841291.3	European Patent Convention	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
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IDP0032637	Indonesia	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
196728	Israel	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
227147	Israel	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
722/CHENP/2009	India	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
2009-525786	Japan	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
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10-1062132	Republic of Korea	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
292035	Mexico	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
PI 20090397	Malaysia	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
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574439	New Zealand	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
1-2009-500196	Philippines	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
2433556	Russian Federation	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.211V1070-2013
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8,223,625	United States	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.212V1070-2013
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14106505.9	Hong Kong	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.212V1070-2013
HK1134180	Hong Kong	Granted	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.212V1070-2013
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11171096.8	European Patent Convention	Pending	Acquisition in frequency division multiple access systems	ATIS.3GPP.36.212V1070-2013
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PI 20090543	Malaysia	Pending	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
20090802	Norway	Pending	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
574906	New Zealand	Pending	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
1-2009-500312	Philippines	Granted	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
2407202	Russian Federation	Granted	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
150628	Singapore	Granted	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
096133736	Taiwan	Pending	Apparatus, method, and computer program product for signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
96954	Ukraine	Granted	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
11374	Vietnam	Granted	Signaling transmission with localized spreading for wireless communication	ATIS.3GPP.36.213V1070-2013
8,798,201	United States	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
PI0716509-9	Brazil	Pending	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
2660759	Canada	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
ZL200780032973.1	China P.R.	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
10100658.1	Hong Kong	Pending	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
EP2547003	Germany	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
07841827.4	European Patent Convention	Pending	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
EP2547003	European Patent Convention	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
EP2547003	Great Britain	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
934/CHENP/2009	India	Pending	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
5420411	Japan	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
2014-162792	Japan	Pending	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
10-2009-7007012	Republic of Korea	Pending	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
10-1216107	Republic of Korea	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
2417527	Russian Federation	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013

150627	Singapore	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.211V1070-2013
I394388	Taiwan	Granted	Codeword Permutation and Reduced Feedback for Grouped Antennas	ATIS.3GPP.36.211V1070-2013
8,798,201	United States	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.213V1070-2013
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10100658.1	Hong Kong	Pending	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.213V1070-2013
EP2547003	Germany	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.213V1070-2013
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150627	Singapore	Granted	Codeword permutation and reduced feedback for grouped antennas	ATIS.3GPP.36.213V1070-2013
I394388	Taiwan	Granted	Codeword Permutation and Reduced Feedback for Grouped Antennas	ATIS.3GPP.36.213V1070-2013
8,374,163	United States	Granted	Synchronization of wireless nodes	ATIS.3GPP.36.413V1060-2013
8,068,427	United States	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0717269-9	Brazil	Pending	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2662349	Canada	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
ZL200780035821.7	China P.R.	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
07853639.8	European Patent Convention	Pending	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1313/CHENP/2009	India	Pending	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5021748	Japan	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5591861	Japan	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1080478	Republic of Korea	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013

2414075	Russian Federation	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
I366362	Taiwan	Granted	Dynamic channel quality reporting in a wireless communication system	ATIS.3GPP.36.321V1080-2013
8,284,706	United States	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
PI0817000-2	Brazil	Pending	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
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ZL200880107827.5	China P.R.	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
EP2208288	Germany	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
EP2208288	European Patent Convention	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
EP2208288	Spain	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
EP2208288	France	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
EP2208288	Great Britain	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
956/DELNP/2010	India	Pending	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
EP2208288	Italy	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
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5536148	Japan	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
2014-039205	Japan	Pending	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
10-1162999	Republic of Korea	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
2457626	Russian Federation	Granted	Semi-connected operations for wireless communications	ATIS.3GPP.36.300V1090-2013
I378674	Taiwan	Granted	Semi-Connected Operations for Wireless Communications	ATIS.3GPP.36.300V1090-2013
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575399	New Zealand	Pending	Synchronization transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-500441	Philippines	Granted	Synchronization transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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2667098	Canada	Pending	Sub-band dependent resource management	ATIS.3GPP.36.211V1070-2013
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12/443,978	United States	Pending	Sub-band dependent resource management	ATIS.3GPP.36.212V1070-2013
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2667098	Canada	Pending	Sub-band dependent resource management	ATIS.3GPP.36.212V1070-2013
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PI0720513-9	Brazil	Pending	Method and apparatus for processing primary and secondary synchronization signals for wireless communication	ATIS.3GPP.36.211V1070-2013
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2417519	Russian Federation	Granted	Method and apparatus for processing primary and secondary synchronization signals for wireless communication	ATIS.3GPP.36.211V1070-2013
2447578	Russian Federation	Granted	Method and apparatus for processing primary and secondary synchronization signals for wireless communication	ATIS.3GPP.36.211V1070-2013
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I383627	Taiwan	Granted	Method and apparatus for processing primary and secondary synchronization signals for wireless communication	ATIS.3GPP.36.211V1070-2013
8,599,706	United States	Granted	Random access signaling transmission for system access in wireless communication	ATIS.3GPP.36.211V1070-2013
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EP2087653	Switzerland	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
ZL200780037017.2	China P.R.	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
HK1133756	Hong Kong	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Germany	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Denmark	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	European Patent Convention	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
14165363.4	European Patent Convention	Pending	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Spain	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Finland	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	France	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Great Britain	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013

EP2087653	Greece	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Hungary	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Ireland	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1524/DELNP/2009	India	Pending	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Italy	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
4981914	Japan	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10-1204505	Republic of Korea	Granted	Methods and apparatus for re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10-2011-7028096	Republic of Korea	Pending	Methods and apparatus for re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Netherlands	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Poland	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Portugal	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Romania	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2419227	Russian Federation	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2087653	Sweden	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
150767	Singapore	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
I390900	Taiwan	Granted	Re-synchronization of temporary UE IDS in a wireless communication system	ATIS.3GPP.36.331V1090-2013
11/867,649	United States	Pending	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
PI0719267-3	Brazil	Pending	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
2663018	Canada	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
2808709	Canada	Pending	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013

200780036917.5	China P.R.	Pending	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
09111868.7	Hong Kong	Pending	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
EP2070381	Germany	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
EP2070381	European Patent Convention	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
EP2070381	Great Britain	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
1540/CHENP/2009	India	Pending	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
5139436	Japan	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
10-1093416	Republic of Korea	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
2426276	Russian Federation	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
150758	Singapore	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
I390879	Taiwan	Granted	Method and apparatus for handling user equipment capability information	ATIS.3GPP.36.300V1090-2013
UNKNOWN	Brazil	Pending	Frequency domain PN sequence	ATIS.3GPP.36.211V1070-2013
2011-525199	Japan	Pending	Frequency domain PN sequence	ATIS.3GPP.36.211V1070-2013
2011-7007034	Republic of Korea	Pending	Frequency domain PN sequence	ATIS.3GPP.36.211V1070-2013
MX/a/2011/002029	Mexico	Pending	Frequency domain PN sequence	ATIS.3GPP.36.211V1070-2013
2011111527	Russian Federation	Pending	Frequency domain PN sequence	ATIS.3GPP.36.211V1070-2013
201100841-4	Singapore	Pending	Frequency domain PN sequence	ATIS.3GPP.36.211V1070-2013
201103624	Ukraine	Pending	Frequency domain PN sequence	ATIS.3GPP.36.211V1070-2013
8,300,582	United States	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0720512-0	Brazil	Pending	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2663689	Canada	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200780036923.0	China P.R.	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10101550.8	Hong Kong	Pending	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07843688.8	European Patent Convention	Pending	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013

1635/DELNP/2009	India	Pending	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
4995916	Japan	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1050955	Republic of Korea	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2424620	Russian Federation	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
150818	Singapore	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1367647	Taiwan	Granted	Uplink ACK transmission for SDMA in a wireless communication system	ATIS.3GPP.36.213V1070-2013
12/443,771	United States	Pending	Method and apparatus for reducing overhead based on the ACK channel	ATIS.3GPP.36.212V1070-2013
PI0717364-4	Brazil	Pending	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
2665682	Canada	Pending	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
ZL200780040326.5	China P.R.	Granted	Method and apparatus for increasing ACK resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
10102374.0	Hong Kong	Pending	Method and apparatus for increasing ACK resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
07863722.0	European Patent Convention	Pending	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
2252/DELNP/2009	India	Pending	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
5340949	Japan	Granted	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1060884	Republic of Korea	Granted	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
2426242	Russian Federation	Granted	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
151762	Singapore	Granted	Method and apparatus for increasing ack resources for a wireless communication system	ATIS.3GPP.36.212V1070-2013
1410074	Taiwan	Granted	Method and apparatus for reducing overhead based on the ACK channel	ATIS.3GPP.36.212V1070-2013
7,903,615	United States	Granted	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2007307656	Australia	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013

PI0718037-3	Brazil	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2663694	Canada	Granted	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
ZL200780037783.9	China P.R.	Granted	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
10102218.0	Hong Kong	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
07853926.9	European Patent Convention	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
W-00200901210	Indonesia	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
197603	Israel	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1566/CHENP/2009	India	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
5575478	Japan	Granted	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2013-050948	Japan	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
10-1190886	Republic of Korea	Granted	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
MX/a/2009/003682	Mexico	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI 20091084	Malaysia	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
20091663	Norway	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
575528	New Zealand	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1-2009-500506	Philippines	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2420884	Russian Federation	Granted	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
I367656	Taiwan	Granted	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1-2009-00927	Vietnam	Pending	Space division multiple access channelization in wireless communication systems	ATIS.3GPP.36.211V1070-2013
7,924,800	United States	Granted	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013

8,599,712	United States	Granted	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
14/033,322	United States	Pending	Method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200680049453.7	China P.R.	Granted	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
06827064.4	European Patent Convention	Pending	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
11167329.9	European Patent Convention	Pending	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
9106383.3	Hong Kong	Pending	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
3479/DELNP/2008	India	Pending	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
4865802	Japan	Granted	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
1013355	Republic of Korea	Granted	A method and apparatus for setting reverse link CQI reporting modes in wireless communication system	ATIS.3GPP.36.213V1070-2013
7,864,819	United States	Granted	Method and apparatus for bit demultiplexing in a wireless communication systems	ATIS.3GPP.36.212V1070-2013
ZL200680049756.9	China P.R.	Granted	A method and apparatus for bit demultiplexing in a wireless communication systems	ATIS.3GPP.36.212V1070-2013
06827242.6	European Patent Convention	Pending	A method and apparatus for bit demultiplexing in a wireless communication systems	ATIS.3GPP.36.212V1070-2013
09106445.9	Hong Kong	Pending	A method and apparatus for bit demultiplexing in a wireless communication systems	ATIS.3GPP.36.212V1070-2013
3482/DELNP/2008	India	Pending	A method and apparatus for bit demultiplexing in a wireless communication systems	ATIS.3GPP.36.212V1070-2013
4785930	Japan	Granted	A method and apparatus for bit demultiplexing in a wireless communication systems	ATIS.3GPP.36.212V1070-2013
2008-7012772	Republic of Korea	Pending	A method and apparatus for bit demultiplexing in a wireless communication systems	ATIS.3GPP.36.212V1070-2013
2010-7014227	Republic of Korea	Pending	A method and apparatus for bit demultiplexing in wireless communication systems	ATIS.3GPP.36.212V1070-2013
8,050,701	United States	Granted	Control channel for wireless communication systems	ATIS.3GPP.36.213V1070-2013
2007311186	Australia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
PI0719661-0	Brazil	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
8,423,073	United States	Granted	Reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013

2663787	Canada	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
200780037784.3	China P.R.	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
201110353664.2	China P.R.	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
12107794.9	Hong Kong	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
10102216.2	Hong Kong	Pending	Control channel for wireless communication systems	ATIS.3GPP.36.213V1070-2013
07844221.7	European Patent Convention	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
IDP0029036	Indonesia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
197617	Israel	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
1927/DELNP/2009	India	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
2009-532602	Japan	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
5536145	Japan	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
10-1166608	Republic of Korea	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
10-1258959	Republic of Korea	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
291623	Mexico	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
MY-145736-A	Malaysia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
20091645	Norway	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
575605	New Zealand	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
1-2009-500532	Philippines	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
2421946	Russian Federation	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
151381	Singapore	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
95316	Ukraine	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013

10233	Vietnam	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.213V1070-2013
8,050,701	United States	Granted	Control channel for wireless communication systems	ATIS.3GPP.36.321V1080-2013
2007311186	Australia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
PI0719661-0	Brazil	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
8,423,073	United States	Granted	Reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
2663787	Canada	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
200780037784.3	China P.R.	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
201110353664.2	China P.R.	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
12107794.9	Hong Kong	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
10102216.2	Hong Kong	Pending	Control channel for wireless communication systems	ATIS.3GPP.36.321V1080-2013
07844221.7	European Patent Convention	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
IDP0029036	Indonesia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
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291623	Mexico	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
MY-145736-A	Malaysia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
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575605	New Zealand	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013

1-2009-500532	Philippines	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
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151381	Singapore	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
95316	Ukraine	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
10233	Vietnam	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.321V1080-2013
8,050,701	United States	Granted	Control channel for wireless communication systems	ATIS.3GPP.36.331V1090-2013
2007311186	Australia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
PI0719661-0	Brazil	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
8,423,073	United States	Granted	Reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
2663787	Canada	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
200780037784.3	China P.R.	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
201110353664.2	China P.R.	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
12107794.9	Hong Kong	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
10102216.2	Hong Kong	Pending	Control channel for wireless communication systems	ATIS.3GPP.36.331V1090-2013
07844221.7	European Patent Convention	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
IDP0029036	Indonesia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
197617	Israel	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
1927/DELNP/2009	India	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
2009-532602	Japan	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
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10-1258959	Republic of Korea	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013

291623	Mexico	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
MY-145736-A	Malaysia	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
20091645	Norway	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
575605	New Zealand	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
1-2009-500532	Philippines	Pending	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
2421946	Russian Federation	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
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95316	Ukraine	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
10233	Vietnam	Granted	Reverse link resource assignment and reverse link power control for wireless communication systems	ATIS.3GPP.36.331V1090-2013
12/443,783	United States	Pending	Random access for wireless communication	ATIS.3GPP.36.211V1070-2013
2011203167	Australia	Granted	Apparatus and method of random access for wireless communication	ATIS.3GPP.36.211V1070-2013
2012200126	Australia	Pending	Apparatus and method of random access for wireless communication	ATIS.3GPP.36.211V1070-2013
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2013-058322	Japan	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
10-1077325	Republic of Korea	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
291617	Mexico	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
MY-147515-A	Malaysia	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
20092097	Norway	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
576287	New Zealand	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
1-2009-500710	Philippines	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
2419994	Russian Federation	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
151772	Singapore	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
I387244	Taiwan	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
98476	Ukraine	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013

10036	Vietnam	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.212V1070-2013
8,787,143	United States	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
2007317510	Australia	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
PI0717891-3	Brazil	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
14/268,136	United States	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
2668139	Canada	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
ZL200780040169.8	China P.R.	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
201410095034.3	China P.R.	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
10100167.5	Hong Kong	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
07854491.3	European Patent Convention	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
IDP0030509	Indonesia	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
198093	Israel	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
2080/CHENP/2009	India	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
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MY-147515-A	Malaysia	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
20092097	Norway	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
576287	New Zealand	Pending	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013

1-2009-500710	Philippines	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
2419994	Russian Federation	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
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1387244	Taiwan	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
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10036	Vietnam	Granted	Method and apparatus for hybrid FDM-CDM structure for single carrier based control channels	ATIS.3GPP.36.213V1070-2013
8,837,380	United States	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
2007317484	Australia	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0717892-1	Brazil	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
2667023	Canada	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
201210535302.X	China P.R.	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
14100606.0	Hong Kong	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
10104081.0	Hong Kong	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
07844795.0	European Patent Convention	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
IDP0031070	Indonesia	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
198215	Israel	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
2083/CHENP/2009	India	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
2009-535459	Japan	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
5475040	Japan	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1095716	Republic of Korea	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013

298021	Mexico	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
MY-146649-A	Malaysia	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
20092096	Norway	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
576221	New Zealand	Pending	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-500811	Philippines	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
2420873	Russian Federation	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
2454797	Russian Federation	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
151819	Singapore	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
I383606	Taiwan	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
94775	Ukraine	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
10265	Vietnam	Granted	Method and apparatus for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
8,848,599	United States	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
2007317485	Australia	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
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2666311	Canada	Pending	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200780040856.X	China P.R.	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1134596	Hong Kong	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
07844797.6	European Patent Convention	Pending	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00200901157	Indonesia	Pending	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
198094	Israel	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013

2081/CHENP/2009	India	Pending	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
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2013-038877	Japan	Pending	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1075769	Republic of Korea	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
288121	Mexico	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 20091452	Malaysia	Pending	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
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2419203	Russian Federation	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
151771	Singapore	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
I362204	Taiwan	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
96462	Ukraine	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
11128	Vietnam	Granted	Reference signal design for cell search in an orthogonal wireless communication system	ATIS.3GPP.36.211V1070-2013
12/443,968	United States	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
2007317517	Australia	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
PI0717893-0	Brazil	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
14/257,197	United States	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
2667097	Canada	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
ZL200780040399.4	China P.R.	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013

HK1137273	Hong Kong	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
EP2100399	Germany	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
EP2100399	European Patent Convention	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
EP2100399	Great Britain	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
IDP0031314	Indonesia	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
198221	Israel	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
2113/CHENP/2009	India	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
5080585	Japan	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
10-1226985	Republic of Korea	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
290144	Mexico	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
MY-146447-A	Malaysia	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
20092095	Norway	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
576254	New Zealand	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
1-2009-500751	Philippines	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
2433535	Russian Federation	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
151766	Singapore	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
096141220	Taiwan	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
96959	Ukraine	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
9986	Vietnam	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.211V1070-2013
12/443,968	United States	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.212V1070-2013

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151766	Singapore	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.212V1070-2013
096141220	Taiwan	Pending	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.212V1070-2013
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9986	Vietnam	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.212V1070-2013
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EP2100399	Germany	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.213V1070-2013
EP2100399	European Patent Convention	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.213V1070-2013
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96959	Ukraine	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.213V1070-2013
9986	Vietnam	Granted	Multiplexing of control and data with varying power offsets in a SC-FDMA system	ATIS.3GPP.36.213V1070-2013
8,630,241	United States	Granted	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
2007329731	Australia	Granted	Frame structures for wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI0717311-3	Brazil	Pending	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
2664663	Canada	Granted	Frame structures for wireless communication systems	ATIS.3GPP.36.211V1070-2013
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09110629.9	Hong Kong	Pending	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
07871213.0	European Patent Convention	Pending	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
W-00200901079	Indonesia	Pending	Frame structures for wireless communication systems	ATIS.3GPP.36.211V1070-2013
197743	Israel	Pending	Frame structures for wireless communication systems	ATIS.3GPP.36.211V1070-2013
1700/CHENP/2009	India	Pending	Frame structures for wireless communication systems	ATIS.3GPP.36.211V1070-2013
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5456847	Japan	Granted	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
10-1077007	Republic of Korea	Granted	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
293259	Mexico	Granted	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
PI 20091178	Malaysia	Pending	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
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93928	Ukraine	Granted	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013
12539	Vietnam	Granted	Frame structures for wireless communication systems.	ATIS.3GPP.36.211V1070-2013

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HK1134621	Hong Kong	Granted	Inter-enode B handover procedure	ATIS.3GPP.36.412V1010-2011
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197884	Israel	Granted	Inter-enode B handover procedure	ATIS.3GPP.36.412V1010-2011
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07844893.3	European Patent Convention	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
09169532.0	European Patent Convention	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10193732.4	European Patent Convention	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11108597.7	Hong Kong	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10193734.0	European Patent Convention	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11108595.9	Hong Kong	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00200901204	Indonesia	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
198234	Israel	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2248/CHENP/2009	India	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-003342	Japan	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1097640	Republic of Korea	Granted	Method and apparatus for a MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1106372	Republic of Korea	Granted	Method and apparatus for a MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1106426	Republic of Korea	Granted	Method and apparatus for a MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
291023	Mexico	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
MY-149270-A	Malaysia	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
20092159	Norway	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
576252	New Zealand	Pending	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2009-500840	Philippines	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013

2424616	Russian Federation	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
151806	Singapore	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1385949	Taiwan	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
94486	Ukraine	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10098	Vietnam	Granted	MIMO transmission with layer permutation in a wireless communication system	ATIS.3GPP.36.213V1070-2013
12/444,493	United States	Pending	Sub-band dependent uplink load management	ATIS.3GPP.36.211V1070-2013
2007316361	Australia	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
PI0717951-0	Brazil	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
2667166	Canada	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
ZL200780041273.9	China P.R.	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
201310072108.7	China P.R.	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
13114431.3	Hong Kong	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
HK1134597	Hong Kong	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
07844919.6	European Patent Convention	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
W-00200901202	Indonesia	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
198222	Israel	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
2249/CHENP/20	India	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
5113184	Japan	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
10-1150105	Republic of Korea	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
304612	Mexico	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
PI 20091531	Malaysia	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
20092158	Norway	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
576256	New Zealand	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
1-2009-500752	Philippines	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
2426231	Russian Federation	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
151807	Singapore	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
99906	Ukraine	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
10730	Vietnam	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.211V1070-2013
12/444,493	United States	Pending	Sub-band dependent uplink load management	ATIS.3GPP.36.212V1070-2013
2007316361	Australia	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
PI0717951-0	Brazil	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
2667166	Canada	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
ZL200780041273.9	China P.R.	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
201310072108.7	China P.R.	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
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HK1134597	Hong Kong	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013

07844919.6	European Patent Convention	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
W-00200901202	Indonesia	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
198222	Israel	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
2249/CHENP/20	India	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
5113184	Japan	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
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304612	Mexico	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
PI 20091531	Malaysia	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
20092158	Norway	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
576256	New Zealand	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
1-2009-500752	Philippines	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
2426231	Russian Federation	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
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99906	Ukraine	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
10730	Vietnam	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.212V1070-2013
12/444,493	United States	Pending	Sub-band dependent uplink load management	ATIS.3GPP.36.213V1070-2013
2007316361	Australia	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
PI0717951-0	Brazil	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
2667166	Canada	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
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HK1134597	Hong Kong	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
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198222	Israel	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
2249/CHENP/20	India	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
5113184	Japan	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
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304612	Mexico	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
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20092158	Norway	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
576256	New Zealand	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
1-2009-500752	Philippines	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
2426231	Russian Federation	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
151807	Singapore	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
99906	Ukraine	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
10730	Vietnam	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.213V1070-2013
12/444,493	United States	Pending	Sub-band dependent uplink load management	ATIS.3GPP.36.423V1050-2013
2007316361	Australia	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
PI0717951-0	Brazil	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013

2667166	Canada	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
ZL200780041273.9	China P.R.	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
201310072108.7	China P.R.	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
13114431.3	Hong Kong	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
HK1134597	Hong Kong	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
07844919.6	European Patent Convention	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
W-00200901202	Indonesia	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
198222	Israel	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
2249/CHENP/20	India	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
5113184	Japan	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
10-1150105	Republic of Korea	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
304612	Mexico	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
PI 20091531	Malaysia	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
20092158	Norway	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
576256	New Zealand	Pending	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
1-2009-500752	Philippines	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
2426231	Russian Federation	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
151807	Singapore	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
99906	Ukraine	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
10730	Vietnam	Granted	Method for transmit power control dependent on subband load	ATIS.3GPP.36.423V1050-2013
12/050,702	United States	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
PI0808969-8	Brazil	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
2679233	Canada	Granted	Uplink timing control	ATIS.3GPP.36.321V1080-2013
200880008911.1	China P.R.	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
10106830.9	Hong Kong	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
08744089.7	European Patent Convention	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
10106227.0	Hong Kong	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
5070/CHENP/2009	India	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
5199335	Japan	Granted	Uplink timing control	ATIS.3GPP.36.321V1080-2013
2012-184031	Japan	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
10-1120727	Republic of Korea	Granted	Uplink timing control	ATIS.3GPP.36.321V1080-2013
2469508	Russian Federation	Granted	Uplink timing control	ATIS.3GPP.36.321V1080-2013
201201789-3	Singapore	Pending	Uplink timing control	ATIS.3GPP.36.321V1080-2013
I362892	Taiwan	Granted	Uplink timing control	ATIS.3GPP.36.321V1080-2013
8,885,744	United States	Granted	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0718785-8	Brazil	Pending	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2667813	Canada	Granted	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2774818	Canada	Pending	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200780041830.7	China P.R.	Pending	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10102748.9	Hong Kong	Pending	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
07864250.1	European Patent Convention	Pending	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013

2441/CHENP/2009	India	Pending	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5215317	Japan	Granted	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1067183	Republic of Korea	Granted	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2424617	Russian Federation	Pending	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
151809	Singapore	Granted	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I373219	Taiwan	Granted	Providing antenna diversity in a wireless communication system	ATIS.3GPP.36.213V1070-2013
12/444,510	United States	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
2007316400	Australia	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
PI0717952-9	Brazil	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
2667492	Canada	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
200780041345.X	China P.R.	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
10102528.5	Hong Kong	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
07863956.4	European Patent Convention	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
W-00200901203	Indonesia	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
198232	Israel	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
2250/CHENP/2009	India	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
2009-536432	Japan	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
2013-192452	Japan	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
10-1084779	Republic of Korea	Granted	Methods and apparatus for codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
290457	Mexico	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
MY-147244-A	Malaysia	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
20092160	Norway	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
1-2009-500873	Philippines	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
2426254	Russian Federation	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
151808	Singapore	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
I361583	Taiwan	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
95992	Ukraine	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
11452	Vietnam	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.211V1070-2013
12/444,510	United States	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.212V1070-2013
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2667492	Canada	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.212V1070-2013
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2013-192452	Japan	Pending	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.212V1070-2013

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I361583	Taiwan	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.213V1070-2013
95992	Ukraine	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.213V1070-2013
11452	Vietnam	Granted	Codeword level scrambling for MIMO transmission	ATIS.3GPP.36.213V1070-2013
7,995,534	United States	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
PI0718869-2	Brazil	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2667611	Canada	Granted	Method and apparatus for serving radio network subsystem relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013

ZL200780041294.0	China P.R.	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
10102731.8	Hong Kong	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
EP2095667	Germany	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
EP2095667	European Patent Convention	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
EP2095667	Spain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
EP2095667	France	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
EP2095667	Great Britain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2082/CHENP/2009	India	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
EP2095667	Italy	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2009-536466	Japan	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
5405612	Japan	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
10-1097532	Republic of Korea	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
10-2011-7026456	Republic of Korea	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2419254	Russian Federation	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.300V1090-2013
7,995,534	United States	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
PI0718869-2	Brazil	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
2667611	Canada	Granted	Method and apparatus for serving radio network subsystem relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
ZL200780041294.0	China P.R.	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
10102731.8	Hong Kong	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
EP2095667	Germany	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013

EP2095667	European Patent Convention	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
EP2095667	Spain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
EP2095667	France	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
EP2095667	Great Britain	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
2082/CHENP/2009	India	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
EP2095667	Italy	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
2009-536466	Japan	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
5405612	Japan	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
10-1097532	Republic of Korea	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
10-2011-7026456	Republic of Korea	Pending	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
2419254	Russian Federation	Granted	Method and apparatus for SRNS relocation in wireless communication systems	ATIS.3GPP.36.331V1090-2013
PI0813350-6	Brazil	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
10108905.5	Hong Kong	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
202164	Israel	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
6914/CHENP/2009	India	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
2010-512417	Japan	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
10-2010-7000516	Republic of Korea	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
MX/a/2009/013661	Mexico	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
581229	New Zealand	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
1-2009-502210	Philippines	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013

2010101055	Russian Federation	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
097122322	Taiwan	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
201000263	Ukraine	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
1-2009-02701	Vietnam	Pending	System selection based on application requirements and preferences	ATIS.3GPP.36.304V1060-2013
8,660,085	United States	Granted	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
8,873,513	United States	Granted	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
ZL200780044809.2	China P.R.	Granted	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
HK1134623	Hong Kong	Granted	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
07865176.7	European Patent Convention	Pending	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
2511/CHENP/2009	India	Pending	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
5199276	Japan	Granted	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
5579776	Japan	Granted	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
2014-141718	Japan	Pending	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
10-1284085	Republic of Korea	Granted	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
10-2012-7000075	Republic of Korea	Pending	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
096146135	Taiwan	Pending	Methods and apparatus for transferring a mobile device from a source eNB to a target eNB	ATIS.3GPP.36.323V1020-2013
8,290,428	United States	Granted	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
PI0720144-3	Brazil	Pending	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
2669309	Canada	Granted	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
ZL200780044802.0	China P.R.	Granted	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
10103363.1	Hong Kong	Pending	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
07868989.0	European Patent Convention	Pending	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
3197/DELNP/2009	India	Pending	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
4965666	Japan	Granted	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
10-1166610	Republic of Korea	Granted	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011

2439815	Russian Federation	Granted	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
I360970	Taiwan	Granted	Methods and apparatus for RLC re-transmission schemes	ATIS.3GPP.36.322V1000-2011
7,995,671	United States	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
2008212797	Australia	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
PI0807108-0	Brazil	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
2676107	Canada	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
ZL200880004454.9	China P.R.	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
10105216.5	Hong Kong	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
8,503,567	United States	Granted	Multiple-input multiple-output (MIMO) transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
08729468.2	European Patent Convention	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
UNKNOWN	Indonesia	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
199820	Israel	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
225592	Israel	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
4342/CHENP/2009	India	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
5096497	Japan	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
10-1119643	Republic of Korea	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
294062	Mexico	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
PI 20092926	Malaysia	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
578359	New Zealand	Pending	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
1-2009-501397	Philippines	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
2435322	Russian Federation	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
154079	Singapore	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
I394411	Taiwan	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
95339	Ukraine	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
11334	Vietnam	Granted	MIMO transmission with rank-dependent precoding	ATIS.3GPP.36.211V1070-2013
8,755,313	United States	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0806527-6	Brazil	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
13/967,234	United States	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2674429	Canada	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
ZL200880002069.0	China P.R.	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10106920.0	Hong Kong	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
08713734.5	European Patent Convention	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
12174555.8	European Patent Convention	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
W-00200901919	Indonesia	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
199359	Israel	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
4148/DELNP/2009	India	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2009-545719	Japan	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2012-033008	Japan	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1122368	Republic of Korea	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
297097	Mexico	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013

PI20092670	Malaysia	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2009-501315	Philippines	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2438256	Russian Federation	Granted	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
200908337	Ukraine	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2009-01706	Vietnam	Pending	Using DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
8,433,357	United States	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
PI0806298-6	Brazil	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
2673872	Canada	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
ZL200880001705.8	China P.R.	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
HK1137265	Hong Kong	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
13/853,283	United States	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
EP2115888	Germany	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
EP2115888	European Patent Convention	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
EP2115888	Spain	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
EP2115888	France	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
EP2115888	Great Britain	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
3319/CHENP/2009	India	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
EP2115888	Italy	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
2009-544982	Japan	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
2013-267747	Japan	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
10-1162993	Republic of Korea	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
EP2115888	Netherlands	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
2420877	Russian Federation	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011

153317	Singapore	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
I381667	Taiwan	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.214V1010-2011
8,433,357	United States	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
PI0806298-6	Brazil	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
2673872	Canada	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
ZL200880001705.8	China P.R.	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
HK1137265	Hong Kong	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
13/853,283	United States	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
EP2115888	Germany	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
EP2115888	European Patent Convention	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
EP2115888	Spain	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
EP2115888	France	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
EP2115888	Great Britain	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
3319/CHENP/2009	India	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
EP2115888	Italy	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
2009-544982	Japan	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
2013-267747	Japan	Pending	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
10-1162993	Republic of Korea	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
EP2115888	Netherlands	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
2420877	Russian Federation	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013

153317	Singapore	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
I381667	Taiwan	Granted	Method and apparatus for utilizing other sector interference (OSI) indication	ATIS.3GPP.36.423V1050-2013
8,634,403	United States	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
2008204808	Australia	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
PI0806490-3	Brazil	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
14/159,390	United States	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
2674428	Canada	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
ZL200880001991.8	China P.R.	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
201310589153.X	China P.R.	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
14108119.3	Hong Kong	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
10105260.0	Hong Kong	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
8,687,620	United States	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
08727547.5	European Patent Convention	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
ID0029155	Indonesia	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
199358	Israel	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
4158/DELNP/2009	India	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
2009-545687	Japan	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
2012-134050	Japan	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
2012-134051	Japan	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
2014-194886	Japan	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
10-1070533	Republic of Korea	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
303724	Mexico	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
MY-150177-A	Malaysia	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
577738	New Zealand	Pending	Fast cell search	ATIS.3GPP.36.211V1070-2013
1-2009-501263	Philippines	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
2433530	Russian Federation	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
153410	Singapore	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
94309	Ukraine	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
10678	Vietnam	Granted	Fast cell search	ATIS.3GPP.36.211V1070-2013
11/971,847	United States	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
PI0806526-8	Brazil	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
2674391	Canada	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
ZL200880001972.5	China P.R.	Granted	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
10104577.1	Hong Kong	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
08727518.6	European Patent Convention	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
3707/CHENP/2009	India	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
2012-278002	Japan	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
2014-187852	Japan	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
10-2009-7016640	Republic of Korea	Pending	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013

10-1343966	Republic of Korea	Granted	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
2427981	Russian Federation	Granted	Radio resource connection (RRC) establishment for wireless systems	ATIS.3GPP.36.331V1090-2013
I373977	Taiwan	Granted	RRC connection establishment E-UTRAN	ATIS.3GPP.36.331V1090-2013
8,457,315	United States	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2008205022	Australia	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0806295-1	Brazil	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
13/886,912	United States	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2674617	Canada	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200880001748.6	China P.R.	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201310229573.7	China P.R.	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
14102106.1	Hong Kong	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10102744.3	Hong Kong	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
08727375.1	European Patent Convention	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
IDP0029973	Indonesia	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
199238	Israel	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
3484/CHENP/2009	India	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5021763	Japan	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1084390	Republic of Korea	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
296825	Mexico	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 20092349	Malaysia	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
577552	New Zealand	Pending	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-501264	Philippines	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2433554	Russian Federation	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
153288	Singapore	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I374618	Taiwan	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
98635	Ukraine	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11264	Vietnam	Granted	Pilot transmission in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,825,099	United States	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0806522-5	Brazil	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2673889	Canada	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200880001773.4	China P.R.	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10104583.3	Hong Kong	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,831,667	United States	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
14/446,894	United States	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013

08705778.2	European Patent Convention	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
3669/CHENP/2009	India	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5108027	Japan	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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2420878	Russian Federation	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I352521	Taiwan	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,825,099	United States	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.331V1090-2013
PI0806522-5	Brazil	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.331V1090-2013
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3669/CHENP/2009	India	Pending	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.331V1090-2013
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I352521	Taiwan	Granted	CQI reporting for MIMO transmission in a wireless communication system	ATIS.3GPP.36.331V1090-2013
8,825,099	United States	Granted	CQI reporting for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004

PI0806522-5	Brazil	Pending	CQI reporting for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
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14/446,894	United States	Pending	CQI reporting for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
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3669/CHENP/2009	India	Pending	CQI reporting for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
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2420878	Russian Federation	Granted	CQI reporting for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
I352521	Taiwan	Granted	CQI reporting for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
11/971,872	United States	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
2008204798	Australia	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
PI0806528-4	Brazil	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
2674425	Canada	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
ZL200880001934.X	China P.R.	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
10102745.2	Hong Kong	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
08727540.0	European Patent Convention	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
W-00200901920	Indonesia	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
199411	Israel	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
3706/CHENP/2009	India	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
5405318	Japan	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
10-1120217	Republic of Korea	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
292032	Mexico	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
MY-149955-A	Malaysia	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
577774	New Zealand	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
1-2009-501293	Philippines	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
2432688	Russian Federation	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013

153408	Singapore	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
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96004	Ukraine	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
1-2009-01589	Vietnam	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.211V1070-2013
11/971,872	United States	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
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PI0806528-4	Brazil	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
2674425	Canada	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
ZL200880001934.X	China P.R.	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
10102745.2	Hong Kong	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
08727540.0	European Patent Convention	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
W-00200901920	Indonesia	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
199411	Israel	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
3706/CHENP/2009	India	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
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292032	Mexico	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
MY-149955-A	Malaysia	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
577774	New Zealand	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
1-2009-501293	Philippines	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
2432688	Russian Federation	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
153408	Singapore	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
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96004	Ukraine	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
1-2009-01589	Vietnam	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.212V1070-2013
11/971,872	United States	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
2008204798	Australia	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
PI0806528-4	Brazil	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
2674425	Canada	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
ZL200880001934.X	China P.R.	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
10102745.2	Hong Kong	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
08727540.0	European Patent Convention	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
W-00200901920	Indonesia	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
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3706/CHENP/2009	India	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
5405318	Japan	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
10-1120217	Republic of Korea	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
292032	Mexico	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
MY-149955-A	Malaysia	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
577774	New Zealand	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
1-2009-501293	Philippines	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013

2432688	Russian Federation	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
153408	Singapore	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
097101027	Taiwan	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
96004	Ukraine	Granted	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
1-2009-01589	Vietnam	Pending	Transmission of information using cyclically shifted sequences	ATIS.3GPP.36.213V1070-2013
8,077,801	United States	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
2008204871	Australia	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
PI0806525-0	Brazil	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
2674421	Canada	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
200880001902.X	China P.R.	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
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W-00200901921	Indonesia	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
199361	Israel	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
4017/DELNP/2009	India	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
5265575	Japan	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
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MY-151494-A	Malaysia	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
577737	New Zealand	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
1-2009-501218	Philippines	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
2421929	Russian Federation	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
153409	Singapore	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
I420866	Taiwan	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
97824	Ukraine	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
10992	Vietnam	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.211V1070-2013
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10104084.7	Hong Kong	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.213V1070-2013
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199361	Israel	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.213V1070-2013
4017/DELNP/2009	India	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.213V1070-2013
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10992	Vietnam	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.213V1070-2013
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5265575	Japan	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
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296969	Mexico	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
MY-151494-A	Malaysia	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
577737	New Zealand	Pending	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
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2421929	Russian Federation	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
153409	Singapore	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
I420866	Taiwan	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
97824	Ukraine	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
10992	Vietnam	Granted	Pilot structure with multiplexed unicast and SFN transmissions	ATIS.3GPP.36.331V1090-2013
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PI0806480-6	Brazil	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
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2760491	Canada	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
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201210391357.8	China P.R.	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
13108697.4	Hong Kong	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
13/325,251	United States	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
08727548.3	European Patent Convention	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
09165095.2	European Patent Convention	Pending	Signalling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
12167542.5	European Patent Convention	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
3709/CHENP/2009	India	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
2009-545688	Japan	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
2012-196493	Japan	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
2012-196494	Japan	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
2014-216471	Japan	Pending	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1194433	Republic of Korea	Granted	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1194435	Republic of Korea	Granted	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
2417523	Russian Federation	Granted	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
I353128	Taiwan	Granted	Signaling of power information for MIMO transmission in a wireless communication system	T1.3GPP.25.214V3120-2004
8,081,997	United States	Granted	Power and/or data rate(s) control based on pilot channel information	T1.3GPP.25.214V3120-2004
PI0806753-8	Brazil	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
2674532	Canada	Granted	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
200880002819.4	China P.R.	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
08728086.3	European Patent Convention	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
3815/CHENP/2009	India	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
2009-547382	Japan	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004

2012-109408	Japan	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
2014-023419	Japan	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
2012-109409	Japan	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
2014-023412	Japan	Pending	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
5410569	Japan	Granted	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
10-1193425	Republic of Korea	Granted	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
2422996	Russian Federation	Granted	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
I368408	Taiwan	Granted	Techniques for high data rates with improved channel reference	T1.3GPP.25.214V3120-2004
8,169,956	United States	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013
EP2317681	Austria	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013
EP2383922	Austria	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013
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PI0807438-0	Brazil	Pending	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013
8,660,080	United States	Granted	Mapping uplink acknowledgement resource based on downlink control channel	ATIS.3GPP.36.211V1070-2013
2674724	Canada	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013
EP2317681	Switzerland	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013
EP2383922	Switzerland	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013
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EP2383922	Germany	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.211V1070-2013

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EP2383922	Ireland	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
199604	Israel	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
4010/CHENP/2009	India	Pending	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2317681	Italy	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Italy	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
5185290	Japan	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
10-1107465	Republic of Korea	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Liechtenstein	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
293260	Mexico	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013

MY-149950-A	Malaysia	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2317681	Netherlands	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Netherlands	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2317681	Norway	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Norway	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
578008	New Zealand	Pending	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
1-2009-501325	Philippines	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2317681	Poland	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Poland	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2317681	Portugal	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Portugal	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2317681	Romania	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Romania	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
2434336	Russian Federation	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2317681	Sweden	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
EP2383922	Sweden	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
153955	Singapore	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
93142	Ukraine	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
9446	Vietnam	Granted	Mapping uplink acknowledgement transmission based on downlink virtual resource blocks	ATIS.3GPP.36.213V1070-2013
8,169,957	United States	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0807395-3	Brazil	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
13/421,865	United States	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013

2675250	Canada	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200880004172.9	China P.R.	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201310186348.X	China P.R.	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1138709	Hong Kong	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
08729041.7	European Patent Convention	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00200902165	Indonesia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
199703	Israel	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
3962/CHENP/2009	India	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5301467	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5345740	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-168708	Japan	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1122440	Republic of Korea	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
295784	Mexico	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 20092835	Malaysia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
578191	New Zealand	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-501369	Philippines	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2433571	Russian Federation	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I375427	Taiwan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
200909126	Ukraine	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-01873	Vietnam	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,169,957	United States	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0807395-3	Brazil	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
13/421,865	United States	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2675250	Canada	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
ZL200880004172.9	China P.R.	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
201310186348.X	China P.R.	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
HK1138709	Hong Kong	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
08729041.7	European Patent Convention	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
W-00200902165	Indonesia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
199703	Israel	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
3962/CHENP/2009	India	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5301467	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5345740	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2013-168708	Japan	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1122440	Republic of Korea	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
295784	Mexico	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI 20092835	Malaysia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
578191	New Zealand	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2009-501369	Philippines	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2433571	Russian Federation	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
I375427	Taiwan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013

200909126	Ukraine	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2009-01873	Vietnam	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.212V1070-2013
8,169,957	United States	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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13/421,865	United States	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2675250	Canada	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200880004172.9	China P.R.	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201310186348.X	China P.R.	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1138709	Hong Kong	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
08729041.7	European Patent Convention	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00200902165	Indonesia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
199703	Israel	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
3962/CHENP/2009	India	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5301467	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5345740	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-168708	Japan	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1122440	Republic of Korea	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
295784	Mexico	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI 20092835	Malaysia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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1-2009-501369	Philippines	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2433571	Russian Federation	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I375427	Taiwan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200909126	Ukraine	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2009-01873	Vietnam	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,169,957	United States	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0807395-3	Brazil	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
13/421,865	United States	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2675250	Canada	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
ZL200880004172.9	China P.R.	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
201310186348.X	China P.R.	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
HK1138709	Hong Kong	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
08729041.7	European Patent Convention	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
W-00200902165	Indonesia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
199703	Israel	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
3962/CHENP/2009	India	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5301467	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5345740	Japan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2013-168708	Japan	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1122440	Republic of Korea	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
295784	Mexico	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013

PI 20092835	Malaysia	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
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1-2009-501369	Philippines	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2433571	Russian Federation	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
I375427	Taiwan	Granted	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
200909126	Ukraine	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2009-01873	Vietnam	Pending	Flexible DTX and DRX in a wireless communication system	ATIS.3GPP.36.321V1080-2013
8,761,713	United States	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
PI0806848-8	Brazil	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
2675251	Canada	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
ZL200880003688.1	China P.R.	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
10105258.4	Hong Kong	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
08728910.4	European Patent Convention	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
11192310.8	European Patent Convention	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
199704	Israel	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
3963/CHENP/2009	India	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
5074525	Japan	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
10-1210445	Republic of Korea	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
304242	Mexico	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
PI 20092826	Malaysia	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
578192	New Zealand	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
1-2009-501413	Philippines	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
2443076	Russian Federation	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
I371983	Taiwan	Granted	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013

200909061	Ukraine	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
1-2009-01769	Vietnam	Pending	Method and apparatus for emergency broadcast using an emergency broadcast-multicast service	ATIS.3GPP.36.331V1090-2013
8,611,303	United States	Granted	Seamless context switching for radio link protocol	ATIS.3GPP.36.322V1000-2011
8,611,303	United States	Granted	Seamless context switching for radio link protocol	ATIS.3GPP.36.323V1020-2013
8,611,303	United States	Granted	Seamless context switching for radio link protocol	ATIS.3GPP.36.331V1090-2013
8,238,295	United States	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
2008210412	Australia	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
PI0807848-3	Brazil	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
2674920	Canada	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
ZL200880003642.X	China P.R.	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
201110095098.X	China P.R.	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
12101323.2	Hong Kong	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
10105219.2	Hong Kong	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
08728613.4	European Patent Convention	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
IDP0033434	Indonesia	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
199685	Israel	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
3958/CHENP/2009	India	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
5048789	Japan	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
10-1128040	Republic of Korea	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
301262	Mexico	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
MY-148734-A	Malaysia	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
578193	New Zealand	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
1-2009-501400	Philippines	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
2437249	Russian Federation	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
153960	Singapore	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
I347141	Taiwan	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
97828	Ukraine	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
11129	Vietnam	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.211V1070-2013
8,238,295	United States	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
2008210412	Australia	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
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2674920	Canada	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
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201110095098.X	China P.R.	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
12101323.2	Hong Kong	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
10105219.2	Hong Kong	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
08728613.4	European Patent Convention	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
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199685	Israel	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013

3958/CHENP/2009	India	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
5048789	Japan	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
10-1128040	Republic of Korea	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
301262	Mexico	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
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578193	New Zealand	Pending	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
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2437249	Russian Federation	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
153960	Singapore	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
1347141	Taiwan	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
97828	Ukraine	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
11129	Vietnam	Granted	Demodulation of a subset of available link assignment blocks	ATIS.3GPP.36.213V1070-2013
8,743,774	United States	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
2008210413	Australia	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0807851-3	Brazil	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
2675577	Canada	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
200880003351.0	China P.R.	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
10105221.8	Hong Kong	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
08728615.9	European Patent Convention	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
W-00200902107	Indonesia	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
199824	Israel	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
4269/CHENP/2009	India	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
4988865	Japan	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1079994	Republic of Korea	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
299903	Mexico	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI 20093060	Malaysia	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
578386	New Zealand	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2009-501412	Philippines	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
2437254	Russian Federation	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
154181	Singapore	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
097103537	Taiwan	Pending	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
97827	Ukraine	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
10879	Vietnam	Granted	Resource requests for a wireless communication system	ATIS.3GPP.36.321V1080-2013
7,881,742	United States	Granted	Method and apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
2008210320	Australia	Granted	Method and apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
PI0806836-4	Brazil	Pending	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
8,060,130	United States	Granted	Method and apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
2675086	Canada	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
ZL200880003756.4	China P.R.	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
10105259.3	Hong Kong	Pending	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
08728763.7	European Patent Convention	Pending	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013

W-00200902131	Indonesia	Pending	Method and apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
199683	Israel	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
3960/CHENP/2009	India	Pending	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
4965668	Japan	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
10-1106796	Republic of Korea	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
285639	Mexico	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
MY-143411-A	Malaysia	Granted	Method and apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
578240	New Zealand	Pending	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
1-2009-501329	Philippines	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
2419207	Russian Federation	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
153992	Singapore	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
I392258	Taiwan	Granted	Method and apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
93144	Ukraine	Granted	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
1-2009-01684	Vietnam	Pending	Method an apparatus for power control during DTX operation	ATIS.3GPP.36.213V1070-2013
7,372,913	United States	Granted	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.211V1070-2013
7,792,208	United States	Granted	Pilot tones In a multi-transmit OFDM system usable to capture transmitter diversity benefits	ATIS.3GPP.36.211V1070-2013
ZL200580024222.6	China P.R.	Granted	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.211V1070-2013
201110086864.6	China P.R.	Pending	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.211V1070-2013
05775616.5	European Patent Convention	Pending	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.211V1070-2013
4891239	Japan	Granted	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.211V1070-2013
094124938	Taiwan	Pending	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.211V1070-2013
7,372,913	United States	Granted	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.213V1070-2013
7,792,208	United States	Granted	Pilot tones In a multi-transmit OFDM system usable to capture transmitter diversity benefits	ATIS.3GPP.36.213V1070-2013
ZL200580024222.6	China P.R.	Granted	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.213V1070-2013
201110086864.6	China P.R.	Pending	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.213V1070-2013
05775616.5	European Patent Convention	Pending	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.213V1070-2013
4891239	Japan	Granted	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.213V1070-2013

094124938	Taiwan	Pending	Pilot Tones In a Multi-Transmit OFDM System Usable to Capture Transmitter Diversity Benefits	ATIS.3GPP.36.213V1070-2013
8,780,771	United States	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
2008213682	Australia	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
PI0806991-3	Brazil	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
2675254	Canada	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
ZL200880004123.5	China P.R.	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
10105220.9	Hong Kong	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
08729215.7	European Patent Convention	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
IDP0031118	Indonesia	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
199705	Israel	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
4170/CHENP/2009	India	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
5180233	Japan	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
10-1314715	Republic of Korea	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
292120	Mexico	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
PI20092772	Malaysia	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
1-2009-501330	Philippines	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
2434328	Russian Federation	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
153989	Singapore	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
I410067	Taiwan	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
94316	Ukraine	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
1-2009-01885	Vietnam	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.211V1070-2013
8,780,771	United States	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
2008213682	Australia	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
PI0806991-3	Brazil	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
2675254	Canada	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
ZL200880004123.5	China P.R.	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
10105220.9	Hong Kong	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
08729215.7	European Patent Convention	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
IDP0031118	Indonesia	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
199705	Israel	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
4170/CHENP/2009	India	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
5180233	Japan	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
10-1314715	Republic of Korea	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
292120	Mexico	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
PI20092772	Malaysia	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
1-2009-501330	Philippines	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
2434328	Russian Federation	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
153989	Singapore	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
I410067	Taiwan	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
94316	Ukraine	Granted	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013

1-2009-01885	Vietnam	Pending	Cyclic delay diversity and precoding for wireless communication	ATIS.3GPP.36.213V1070-2013
8,213,483	United States	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
PI0806993-0	Brazil	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
2675694	Canada	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
ZL200880004212.X	China P.R.	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
10107747.9	Hong Kong	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
08729200.9	European Patent Convention	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
199748	Israel	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
3964/CHENP/2009	India	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
5307033	Japan	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
2012-206820	Japan	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
10-1107374	Republic of Korea	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
300025	Mexico	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
PI 20092836	Malaysia	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
1-2009-501508	Philippines	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
2427076	Russian Federation	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
I384772	Taiwan	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
200909122	Ukraine	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
1-2009-01667	Vietnam	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.211V1070-2013
8,213,483	United States	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
PI0806993-0	Brazil	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
2675694	Canada	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
ZL200880004212.X	China P.R.	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
10107747.9	Hong Kong	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
08729200.9	European Patent Convention	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
199748	Israel	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
3964/CHENP/2009	India	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
5307033	Japan	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
2012-206820	Japan	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
10-1107374	Republic of Korea	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
300025	Mexico	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
PI 20092836	Malaysia	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
1-2009-501508	Philippines	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
2427076	Russian Federation	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
I384772	Taiwan	Granted	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
200909122	Ukraine	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
1-2009-01667	Vietnam	Pending	Hopping structures for broadband pilot signals	ATIS.3GPP.36.213V1070-2013
7,986,959	United States	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
2008216213	Australia	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
PI0807822-0	Brazil	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
2676183	Canada	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013

200880005222.5	China P.R.	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
201310481292.0	China P.R.	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
14108124.6	Hong Kong	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
10105262.8	Hong Kong	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
8,559,889	United States	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
14/026,500	United States	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
08729830.3	European Patent Convention	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
IDP0032943	Indonesia	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
200022	Israel	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
4489/CHENP/2009	India	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
2009-549714	Japan	Pending	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
10-1124760	Republic of Korea	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
299368	Mexico	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
303637	Mexico	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
MY-15193-A	Malaysia	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
578570	New Zealand	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
1-2009-501447	Philippines	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
1-2012-500285	Philippines	Pending	A method and apparatus for power control using a power control preamble	ATIS.3GPP.36.213V1070-2013
2428794	Russian Federation	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
154217	Singapore	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
I364923	Taiwan	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
96181	Ukraine	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
11131	Vietnam	Granted	Preamble based uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
8,437,792	United States	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
2008216214	Australia	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
PI0807777-0	Brazil	Pending	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
2676127	Canada	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
ZL200880005118.6	China P.R.	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
HK1137575	Hong Kong	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
08729832.9	European Patent Convention	Pending	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
W-00200902503	Indonesia	Pending	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
199970	Israel	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
4487/CHENP/2009	India	Pending	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
5362589	Japan	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
10-1124904	Republic of Korea	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
300295	Mexico	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
MY-148048-A	Malaysia	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
578571	New Zealand	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
1-2009-501494	Philippines	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
2446572	Russian Federation	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013

154182	Singapore	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
I375420	Taiwan	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
94797	Ukraine	Granted	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
1-2009-01936	Vietnam	Pending	Uplink power control for LTE	ATIS.3GPP.36.212V1070-2013
8,437,792	United States	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
2008216214	Australia	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
PI0807777-0	Brazil	Pending	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
2676127	Canada	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
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4487/CHENP/2009	India	Pending	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
5362589	Japan	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
10-1124904	Republic of Korea	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
300295	Mexico	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
MY-148048-A	Malaysia	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
578571	New Zealand	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
1-2009-501494	Philippines	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
2446572	Russian Federation	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
154182	Singapore	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
I375420	Taiwan	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
94797	Ukraine	Granted	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
1-2009-01936	Vietnam	Pending	Uplink power control for LTE	ATIS.3GPP.36.213V1070-2013
2008218723	Australia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
PI0807958-7	Brazil	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
8,208,925	United States	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
2676711	Canada	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
201110409547.3	China P.R.	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
10105261.9	Hong Kong	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
12150822.0	European Patent Convention	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
IDP0031834	Indonesia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
200145	Israel	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
4511/CHENP/2009	India	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
2009-550988	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
2013-138820	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
10-1172949	Republic of Korea	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
299908	Mexico	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
PI 20093147	Malaysia	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
1-2009-501477	Philippines	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013

2440697	Russian Federation	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
154570	Singapore	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
097106141	Taiwan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
96182	Ukraine	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
1-2009-01979	Vietnam	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.211V1070-2013
2008218723	Australia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
PI0807958-7	Brazil	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
8,208,925	United States	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
2676711	Canada	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
201110409547.3	China P.R.	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
10105261.9	Hong Kong	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
12150822.0	European Patent Convention	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
IDP0031834	Indonesia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
200145	Israel	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
4511/CHENP/2009	India	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
2009-550988	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
2013-138820	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
10-1172949	Republic of Korea	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
299908	Mexico	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
PI 20093147	Malaysia	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
1-2009-501477	Philippines	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
2440697	Russian Federation	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
154570	Singapore	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
097106141	Taiwan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
96182	Ukraine	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
1-2009-01979	Vietnam	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.212V1070-2013
2008218723	Australia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
PI0807958-7	Brazil	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
8,208,925	United States	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
2676711	Canada	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
201110409547.3	China P.R.	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
10105261.9	Hong Kong	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
12150822.0	European Patent Convention	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
IDP0031834	Indonesia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
200145	Israel	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
4511/CHENP/2009	India	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
2009-550988	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
2013-138820	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
10-1172949	Republic of Korea	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
299908	Mexico	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
PI 20093147	Malaysia	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013

1-2009-501477	Philippines	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
2440697	Russian Federation	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
154570	Singapore	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
097106141	Taiwan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
96182	Ukraine	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
1-2009-01979	Vietnam	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.213V1070-2013
2008218723	Australia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
PI0807958-7	Brazil	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
8,208,925	United States	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
2676711	Canada	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
201110409547.3	China P.R.	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
10105261.9	Hong Kong	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
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IDP0031834	Indonesia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
200145	Israel	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
4511/CHENP/2009	India	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
2009-550988	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
2013-138820	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
10-1172949	Republic of Korea	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
299908	Mexico	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
PI 20093147	Malaysia	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
1-2009-501477	Philippines	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
2440697	Russian Federation	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
154570	Singapore	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
097106141	Taiwan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
96182	Ukraine	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
1-2009-01979	Vietnam	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.304V1060-2013
2008218723	Australia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
PI0807958-7	Brazil	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
8,208,925	United States	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
2676711	Canada	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
201110409547.3	China P.R.	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
10105261.9	Hong Kong	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
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IDP0031834	Indonesia	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
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4511/CHENP/2009	India	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
2009-550988	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
2013-138820	Japan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
10-1172949	Republic of Korea	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
299908	Mexico	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013

PI 20093147	Malaysia	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
1-2009-501477	Philippines	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
2440697	Russian Federation	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
154570	Singapore	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
097106141	Taiwan	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
96182	Ukraine	Granted	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
1-2009-01979	Vietnam	Pending	Method and apparatus for inter-system handover	ATIS.3GPP.36.321V1080-2013
8,718,030	United States	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
PI0809307-5	Brazil	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
200880009700.X	China P.R.	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
10107297.3	Hong Kong	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
08744284.4	European Patent Convention	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
200594	Israel	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
5308/CHENP/2009	India	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
5290271	Japan	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
10-1110904	Republic of Korea	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
299888	Mexico	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
PI 20093577	Malaysia	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
579311	New Zealand	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
2442210	Russian Federation	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
200905764-7	Singapore	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
I373242	Taiwan	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
1-2009-02194	Vietnam	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.212V1070-2013
8,718,030	United States	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
PI0809307-5	Brazil	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
200880009700.X	China P.R.	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
10107297.3	Hong Kong	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
08744284.4	European Patent Convention	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
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5308/CHENP/2009	India	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
5290271	Japan	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
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299888	Mexico	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
PI 20093577	Malaysia	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
579311	New Zealand	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
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I373242	Taiwan	Granted	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
1-2009-02194	Vietnam	Pending	Methods and apparatus for performing channel tree operations	ATIS.3GPP.36.213V1070-2013
8,289,920	United States	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
2012201579	Australia	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013

PI0808916-7	Brazil	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
2679270	Canada	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
200880008668.3	China P.R.	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
10107620.1	Hong Kong	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
08732094.1	European Patent Convention	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
W-00200902586	Indonesia	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
200651	Israel	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
5019/CHENP/2009	India	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
4988873	Japan	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
10-1213545	Republic of Korea	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
297845	Mexico	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
MY-149992-A	Malaysia	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
579378	New Zealand	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
1-2009-501726	Philippines	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
2470476	Russian Federation	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
201201838-8	Singapore	Pending	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
I368421	Taiwan	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
98486	Ukraine	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
11988	Vietnam	Granted	Method and apparatus for handoff between access systems	ATIS.3GPP.36.331V1090-2013
8,457,093	United States	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Austria	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
2008224836	Australia	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Belgium	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
PI0808722-9	Brazil	Pending	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
13/889,095	United States	Pending	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
2678550	Canada	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Switzerland	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
ZL200880008284.1	China P.R.	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
HK1141190	Hong Kong	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Germany	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Denmark	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	European Patent Convention	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Spain	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Finland	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	France	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Great Britain	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Greece	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Hungary	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
W-00200902504	Indonesia	Pending	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Ireland	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
200461	Israel	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013

4976/CHENP/2009	India	Pending	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Italy	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
5290210	Japan	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
10-1135267	Republic of Korea	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
298854	Mexico	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
MY-147679-A	Malaysia	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Netherlands	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Norway	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
570942	New Zealand	Pending	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
1-2009-501577	Philippines	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Poland	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Portugal	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Romania	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
2441343	Russian Federation	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
EP2127449	Sweden	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
154834	Singapore	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
I380641	Taiwan	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
97661	Ukraine	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
12016	Vietnam	Granted	Scheduling of dynamic broadcast channel	ATIS.3GPP.36.331V1090-2013
12/047,562	United States	Pending	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
PI0808989-2	Brazil	Pending	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
2679225	Canada	Pending	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
ZL200880008618.5	China P.R.	Granted	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
08732307.7	European Patent Convention	Pending	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
5017/CHENP/2009	India	Pending	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
5431174	Japan	Granted	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
10-1186658	Republic of Korea	Granted	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
2433543	Russian Federation	Granted	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
097109351	Taiwan	Pending	Configurable acknowledgement processing in a wireless communication system	ATIS.3GPP.36.104V10100-2013
8,670,704	United States	Granted	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013

PI0808918-3	Brazil	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
14/181,284	United States	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
2679221	Canada	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
ZL200880008522.9	China P.R.	Granted	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
201310581830.3	China P.R.	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
14108122.8	Hong Kong	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
08732289.7	European Patent Convention	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
10171144.8	European Patent Convention	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
10171145.5	European Patent Convention	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
12151318.8	European Patent Convention	Pending	Pilot transmission by relays in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
4944/CHENP/2009	India	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
5518492	Japan	Granted	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
2014-076254	Japan	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
10-1252726	Republic of Korea	Granted	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
10-1341037	Republic of Korea	Granted	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
2433549	Russian Federation	Granted	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
I426728	Taiwan	Granted	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
102148544	Taiwan	Pending	Pilot transmission by relay stations in a multihop relay communication system	ATIS.3GPP.36.216V1031-2013
12/045,501	United States	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
PI0808690-7	Brazil	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
2678445	Canada	Granted	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
ZL200880007867.2	China P.R.	Granted	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
10106924.6	Hong Kong	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013

W-00200902534	Indonesia	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
200462	Israel	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
4977/CHENP/2009	India	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
2009-553751	Japan	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
2013-167032	Japan	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
10-1076158	Republic of Korea	Granted	Method and apparatus for utilizing hybrid pilot mode	ATIS.3GPP.36.211V1070-2013
300878	Mexico	Granted	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
PI 20093501	Malaysia	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
2440687	Russian Federation	Granted	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
I394412	Taiwan	Granted	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
200910293	Ukraine	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
1-2009-02136	Vietnam	Pending	Hybrid pilot configuration	ATIS.3GPP.36.211V1070-2013
12/045,501	United States	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
PI0808690-7	Brazil	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
2678445	Canada	Granted	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
ZL200880007867.2	China P.R.	Granted	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
10106924.6	Hong Kong	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
W-00200902534	Indonesia	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
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4977/CHENP/2009	India	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
2009-553751	Japan	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
2013-167032	Japan	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
10-1076158	Republic of Korea	Granted	Method and apparatus for utilizing hybrid pilot mode	ATIS.3GPP.36.213V1070-2013
300878	Mexico	Granted	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
PI 20093501	Malaysia	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
2440687	Russian Federation	Granted	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
I394412	Taiwan	Granted	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
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1-2009-02136	Vietnam	Pending	Hybrid pilot configuration	ATIS.3GPP.36.213V1070-2013
12/048,883	United States	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
PI0808920-5	Brazil	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
ZL200880014415.7	China P.R.	Granted	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
201210384788.1	China P.R.	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
201210384768.4	China P.R.	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
08732376.2	European Patent Convention	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014

1773/MUMNP/2009	India	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
4965671	Japan	Granted	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
10-1122999	Republic of Korea	Granted	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
10-1122997	Republic of Korea	Granted	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
10-1122996	Republic of Korea	Granted	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
2440688	Russian Federation	Granted	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
097109409	Taiwan	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
102106324	Taiwan	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
102106322	Taiwan	Pending	User profile, policy, and PMIP key distribution in a wireless communication network	ATIS.3GPP.29.273V1150-2014
12/048,541	United States	Pending	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
PI0808794-6	Brazil	Pending	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
2679279	Canada	Pending	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
ZL200880008419.4	China P.R.	Granted	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
10106925.5	Hong Kong	Pending	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
13/358,922	United States	Pending	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
08732379.6	European Patent Convention	Pending	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
5075/CHENP/2009	India	Pending	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
5054125	Japan	Granted	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
10-1124761	Republic of Korea	Granted	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
10-1124836	Republic of Korea	Granted	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
2445752	Russian Federation	Granted	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
154872	Singapore	Granted	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
I377857	Taiwan	Granted	PICH-HS timing and operation	ATIS.3GPP.36.304V1060-2013
12/048,541	United States	Pending	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
PI0808794-6	Brazil	Pending	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
2679279	Canada	Pending	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
ZL200880008419.4	China P.R.	Granted	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
10106925.5	Hong Kong	Pending	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
13/358,922	United States	Pending	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
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5054125	Japan	Granted	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013

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10-1124836	Republic of Korea	Granted	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
2445752	Russian Federation	Granted	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
154872	Singapore	Granted	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
I377857	Taiwan	Granted	PICH-HS timing and operation	ATIS.3GPP.36.331V1090-2013
12/048,541	United States	Pending	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
PI0808794-6	Brazil	Pending	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
2679279	Canada	Pending	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
ZL200880008419.4	China P.R.	Granted	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
10106925.5	Hong Kong	Pending	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
13/358,922	United States	Pending	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
08732379.6	European Patent Convention	Pending	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
5075/CHENP/2009	India	Pending	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
5054125	Japan	Granted	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
10-1124761	Republic of Korea	Granted	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
10-1124836	Republic of Korea	Granted	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
2445752	Russian Federation	Granted	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
154872	Singapore	Granted	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
I377857	Taiwan	Granted	PICH-HS timing and operation	T1.3GPP.25.211V3120-2003
8,619,752	United States	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2008228972	Australia	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0808919-1	Brazil	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
200880008539.4	China P.R.	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201410503262.X	China P.R.	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10106922.8	Hong Kong	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
08732382.0	European Patent Convention	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
13179403.4	European Patent Convention	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00200902561	Indonesia	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
200463	Israel	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5005/CHENP/2009	India	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013

5054128	Japan	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1122903	Republic of Korea	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
304963	Mexico	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
MY-150122-A	Malaysia	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-501701	Philippines	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2477003	Russian Federation	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201201567-3	Singapore	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I387254	Taiwan	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
102102264	Taiwan	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
96020	Ukraine	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2009-02160	Vietnam	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,619,752	United States	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2008228972	Australia	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0808919-1	Brazil	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
200880008539.4	China P.R.	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
201410503262.X	China P.R.	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10106922.8	Hong Kong	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
08732382.0	European Patent Convention	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
13179403.4	European Patent Convention	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
W-00200902561	Indonesia	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013

200463	Israel	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5005/CHENP/2009	India	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5054128	Japan	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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I387254	Taiwan	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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96020	Ukraine	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2009-02160	Vietnam	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.212V1070-2013
8,619,752	United States	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2008228972	Australia	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0808919-1	Brazil	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200880008539.4	China P.R.	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201410503262.X	China P.R.	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10106922.8	Hong Kong	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
08732382.0	European Patent Convention	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013

13179403.4	European Patent Convention	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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1-2009-501701	Philippines	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2477003	Russian Federation	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
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I387254	Taiwan	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
102102264	Taiwan	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
96020	Ukraine	Granted	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2009-02160	Vietnam	Pending	Method and apparatus for polling in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,676,223	United States	Granted	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
PI0809389-0	Brazil	Pending	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
2679349	Canada	Pending	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
ZL200880009477.9	China P.R.	Granted	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
08732702.9	European Patent Convention	Pending	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
5226/CHENP/2009	India	Pending	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
5372908	Japan	Granted	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
10-1073250	Republic of Korea	Granted	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
2441333	Russian Federation	Granted	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
I383694	Taiwan	Granted	Backhaul communication for interference management	ATIS.3GPP.36.300V1090-2013
8,676,223	United States	Granted	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013

PI0809389-0	Brazil	Pending	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
2679349	Canada	Pending	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
ZL200880009477.9	China P.R.	Granted	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
08732702.9	European Patent Convention	Pending	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
5226/CHENP/2009	India	Pending	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
5372908	Japan	Granted	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
10-1073250	Republic of Korea	Granted	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
2441333	Russian Federation	Granted	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
I383694	Taiwan	Granted	Backhaul communication for interference management	ATIS.3GPP.36.423V1050-2013
12/055,076	United States	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
2008230819	Australia	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
PI0809469-1	Brazil	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
2680523	Canada	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
ZL200880010011.0	China P.R.	Granted	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
201310052359.9	China P.R.	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
10107621.0	Hong Kong	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
08744413.9	European Patent Convention	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
200817	Israel	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
5341/CHENP/2009	India	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
4927991	Japan	Granted	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
10-2009-7022388	Republic of Korea	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
10-1248876	Republic of Korea	Granted	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
307971	Mexico	Granted	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
1-2009-501718	Philippines	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
2439844	Russian Federation	Granted	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013

200905974-2	Singapore	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
I399104	Taiwan	Granted	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
200910733	Ukraine	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
1-2009-02278	Vietnam	Pending	Apparatus and method of performing a handoff in a communication network	ATIS.3GPP.36.423V1050-2013
12/052,536	United States	Pending	Method and apparatus for distinguishing broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
2008230885	Australia	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
PI0809108-0	Brazil	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
2679508	Canada	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
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10107295.5	Hong Kong	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
08744281.0	European Patent Convention	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
W-00200902565	Indonesia	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
200599	Israel	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
5228/CHENP/2009	India	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
5431299	Japan	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
10-1144506	Republic of Korea	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
298287	Mexico	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
PI 20093571	Malaysia	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
1-2009-501717	Philippines	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
2433546	Russian Federation	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013

155293	Singapore	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
097110413	Taiwan	Pending	Method and apparatus for distinguishing broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
98488	Ukraine	Granted	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
1-2009-02224	Vietnam	Pending	Method and apparatus for determining broadcast messages in wireless signals	ATIS.3GPP.36.300V1090-2013
8,726,121	United States	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
2008230783	Australia	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
PI0809365-2	Brazil	Pending	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
200880009880.1	China P.R.	Pending	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
10107300.8	Hong Kong	Pending	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
08744499.8	European Patent Convention	Pending	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
IDP0033766	Indonesia	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
200597	Israel	Pending	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
5310/CHENP/2009	India	Pending	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
5479317	Japan	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
10-1201461	Republic of Korea	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
301173	Mexico	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
PI 20093569	Malaysia	Pending	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
579312	New Zealand	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
1-2009-501652	Philippines	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
2442285	Russian Federation	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
155307	Singapore	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
I382706	Taiwan	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
94655	Ukraine	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
11481	Vietnam	Granted	Circular buffer based rate matching	ATIS.3GPP.36.212V1070-2013
8,059,595	United States	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
2008266775	Australia	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
PI0809985-5	Brazil	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
2681401	Canada	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
200880010873.3	China P.R.	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
10107752.1	Hong Kong	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
08825927.0	European Patent Convention	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
W-00200902795	Indonesia	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
200930	Israel	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
5558/CHENP/2009	India	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
5362699	Japan	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
10-1128115	Republic of Korea	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
MX/a/2009/010547	Mexico	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013

PI20093891	Malaysia	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
579686	New Zealand	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
1-2009-501851	Philippines	Pending	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
2446628	Russian Federation	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
155512	Singapore	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
I380711	Taiwan	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
97146	Ukraine	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
10435	Vietnam	Granted	Handoff of data attachment point	ATIS.3GPP.36.331V1090-2013
12/113,900	United States	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
PI0811856-6	Brazil	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
2685899	Canada	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
ZL200880016166.5	China P.R.	Granted	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
10105813.2	Hong Kong	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
08755615.5	European Patent Convention	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
201624	Israel	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
2007/MUMNP/2009	India	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
5231536	Japan	Granted	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
10-2009-7026508	Republic of Korea	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
10-1355524	Republic of Korea	Granted	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
MX/a/2009/012459	Mexico	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
PI20094498	Malaysia	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
580570	New Zealand	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
1-2009-502008	Philippines	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
2468520	Russian Federation	Granted	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
1-2009-02752	Vietnam	Pending	Enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
8,412,227	United States	Granted	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
PI0820127-7	Brazil	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
13/852,574	United States	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
2709908	Canada	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
200880127036.9	China P.R.	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
11103059.9	Hong Kong	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
08862602.3	European Patent Convention	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
206421	Israel	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
1336/MUMNP/2010	India	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
5323859	Japan	Granted	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
10-1174987	Republic of Korea	Granted	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
MX/a/2010/006820	Mexico	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
PI 2010002849	Malaysia	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
586184	New Zealand	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
1-2010-501408	Philippines	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
2470493	Russian Federation	Granted	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013

I387291	Taiwan	Granted	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
201008826	Ukraine	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
1-2010-01846	Vietnam	Pending	Positioning using enhanced pilot signal	ATIS.3GPP.36.355V1080-2013
8,483,174	United States	Granted	Method and apparatus for providing gateway relocation	ATIS.3GPP.23.060V1150-2014
200880012808.4	China P.R.	Pending	Method and apparatus for providing gateway relocation when performing a handover	ATIS.3GPP.23.060V1150-2014
08746293.3	European Patent Convention	Pending	Method and apparatus for providing gateway relocation when performing a handover	ATIS.3GPP.23.060V1150-2014
5887/CHENP/2009	India	Pending	Method and apparatus for providing gateway relocation when performing a handover	ATIS.3GPP.23.060V1150-2014
5248597	Japan	Granted	Method and apparatus for providing gateway relocation when performing a handover	ATIS.3GPP.23.060V1150-2014
2013-003353	Japan	Pending	Method and apparatus for providing gateway relocation when performing a handover	ATIS.3GPP.23.060V1150-2014
10-1115155	Republic of Korea	Granted	Method and apparatus for providing gateway relocation when performing a handover	ATIS.3GPP.23.060V1150-2014
097114376	Taiwan	Pending	Method and apparatus for providing gateway relocation	ATIS.3GPP.23.060V1150-2014
8,649,401	United States	Granted	Generation and detection of synchronization signal in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,326,318	United States	Granted	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
13/672,689	United States	Pending	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
ZL200880014290.8	China P.R.	Granted	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
201310492785.4	China P.R.	Pending	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
08754991.1	European Patent Convention	Pending	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
12158435.3	European Patent Convention	Pending	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
1846/MUMNP/2009	India	Pending	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
2010-506660	Japan	Pending	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
2012-196108	Japan	Pending	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
10-1143294	Republic of Korea	Granted	Position location for wireless communication systems	ATIS.3GPP.36.355V1080-2013
12/113,808	United States	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Austria	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
2008247434	Australia	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Belgium	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
PI0811484-6	Brazil	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
2683563	Canada	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Switzerland	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
ZL200880014364.8	China P.R.	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
201310161892.9	China P.R.	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
13109671.2	Hong Kong	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
HK1141922	Hong Kong	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Germany	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013

EP2153687	Denmark	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	European Patent Convention	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
12163099.0	European Patent Convention	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Spain	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Finland	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	France	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Great Britain	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Greece	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Hungary	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
IDP0031426	Indonesia	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Ireland	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
201516	Israel	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
6024/CHENP/2009	India	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Italy	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
5296056	Japan	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
2013-081498	Japan	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
10-1098066	Republic of Korea	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
296462	Mexico	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
PI 20094199	Malaysia	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Netherlands	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Norway	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
1-2009-501992	Philippines	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Poland	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Portugal	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Romania	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
2428814	Russian Federation	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
EP2153687	Sweden	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
156163	Singapore	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
I414198	Taiwan	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
94012	Ukraine	Granted	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
1-2009-02568	Vietnam	Pending	Flexible signaling of resources on a control channel	ATIS.3GPP.36.213V1070-2013
12/114,137	United States	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2008247424	Australia	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2011200293	Australia	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
PI0811487-0	Brazil	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2681720	Canada	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2828974	Canada	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
ZL200880014393.4	China P.R.	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
201310034142.5	China P.R.	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
13112377.3	Hong Kong	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
HK1140611	Hong Kong	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013

08747662.8	European Patent Convention	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
09172472.4	European Patent Convention	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
IDP0029460	Indonesia	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
201080	Israel	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
225750	Israel	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
5710/CHENP/2009	India	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2010-507586	Japan	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
5450679	Japan	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2013-122365	Japan	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
10-1244786	Republic of Korea	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
10-1244790	Republic of Korea	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
300811	Mexico	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
PI20094330	Malaysia	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
579809	New Zealand	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
1-2009-501876	Philippines	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2439855	Russian Federation	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
2011122505	Russian Federation	Pending	A method and apparatus for allocating UL ACK	ATIS.3GPP.36.211V1070-2013
156021	Singapore	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
I427959	Taiwan	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
97520	Ukraine	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
201112152	Ukraine	Pending	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
11104	Vietnam	Granted	Method and apparatus for UL ACK allocation	ATIS.3GPP.36.211V1070-2013
8,767,872	United States	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Austria	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Austria	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Belgium	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Belgium	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
14/313,838	United States	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Switzerland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Switzerland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200880016601.4	China P.R.	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201210385838.8	China P.R.	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
13106999.3	Hong Kong	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10108908.2	Hong Kong	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Germany	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Germany	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Denmark	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Denmark	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	European Patent Convention	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	European Patent Convention	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Spain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013

EP2391050	Spain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Finland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Finland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	France	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	France	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Great Britain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Great Britain	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Greece	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Greece	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Hungary	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Hungary	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Ireland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Ireland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
6305/CHENP/2009	India	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Italy	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Italy	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2012-234962	Japan	Pending	Method and Apparatus for Uplink Control Channel Multiplexing and Power Control	ATIS.3GPP.36.211V1070-2013
2014-187873	Japan	Pending	Method and Apparatus for Uplink Control Channel Multiplexing and Power Control	ATIS.3GPP.36.211V1070-2013
10-1121366	Republic of Korea	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Netherlands	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Netherlands	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Norway	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Norway	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Poland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Poland	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Portugal	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Portugal	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Romania	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Romania	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2158715	Sweden	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP2391050	Sweden	Granted	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
097118222	Taiwan	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
103126988	Taiwan	Pending	Pilot structures for ACK and CQI in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,559,321	United States	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
2008261774	Australia	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
PI0812215-6	Brazil	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
14/054,327	United States	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
2687513	Canada	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
ZL200880019370.2	China P.R.	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014

201410230424.7	China P.R.	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
10108481.7	Hong Kong	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
08770528.1	European Patent Convention	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
12171958.7	European Patent Convention	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
IDP0033924	Indonesia	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
202030	Israel	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
227172	Israel	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
6834/CHENP/2009	India	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
5237362	Japan	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
10-1203101	Republic of Korea	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
295196	Mexico	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
MY-147831-A	Malaysia	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
581144	New Zealand	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
1-2009-502221	Philippines	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
2463725	Russian Federation	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
156897	Singapore	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
I425800	Taiwan	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
102139399	Taiwan	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
97669	Ukraine	Granted	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
1-2010-00048	Vietnam	Pending	Mobile IP home agent discovery	ATIS.3GPP.23.401V1150-2014
7,920,598	United States	Granted	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
ZL200880017323.4	China P.R.	Granted	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
HK1142730	Hong Kong	Granted	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
08780677.4	European Patent Convention	Pending	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
6420/CHENP/2009	India	Pending	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
5096566	Japan	Granted	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
10-1140109	Republic of Korea	Granted	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
I360306	Taiwan	Granted	Scrambling methods for synchronization channels	ATIS.3GPP.36.211V1070-2013
8,670,363	United States	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
2008259927	Australia	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
PI0812553-8	Brazil	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
14/056,181	United States	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
2686947	Canada	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
200880017988.5	China P.R.	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013

10108204.3	Hong Kong	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
08756565.1	European Patent Convention	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
W-00200903756	Indonesia	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
201954	Israel	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
6570/CHENP/2009	India	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
5231540	Japan	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
5591867	Japan	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
10-1167376	Republic of Korea	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
1387039	Republic of Korea	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
10-1343955	Republic of Korea	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
303392	Mexico	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
MX/a/2012/005585	Mexico	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
1-2009-502129	Philippines	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
2455777	Russian Federation	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
156823	Singapore	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
201205177-7	Singapore	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
I374644	Taiwan	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
101126377	Taiwan	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
94823	Ukraine	Granted	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
1-2009-02697	Vietnam	Pending	Method and apparatus for sending scheduling information for broadcast and multicast services in a cellular communication system	ATIS.3GPP.36.331V1090-2013
12/133,164	United States	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013

PI0812328-4	Brazil	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
2687550	Canada	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
ZL200880018965.6	China P.R.	Granted	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
10108480.8	Hong Kong	Pending	A method and apparatus for pseudo-random sequence (PRS) mapping for lte	ATIS.3GPP.36.211V1070-2013
08756747.5	European Patent Convention	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
W-00201000016	Indonesia	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
202031	Israel	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
6835/CHENP/2009	India	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
5102353	Japan	Granted	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
10-1099195	Republic of Korea	Granted	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
298026	Mexico	Granted	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
581098	New Zealand	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
1-2009-502161	Philippines	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
2439796	Russian Federation	Granted	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
I380606	Taiwan	Granted	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
200913593	Ukraine	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
1-2010-00019	Vietnam	Pending	Pseudo-random sequence mapping in wireless communications	ATIS.3GPP.36.211V1070-2013
8,467,304	United States	Granted	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
PI0822903-1	Brazil	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
W-00201100240	Indonesia	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
209710	Israel	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
7977/CHENP/2010	India	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
2011-514566	Japan	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
10-2011-7001413	Republic of Korea	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
MX/a/2010/014286	Mexico	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
PI 2010005741	Malaysia	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
2011101690	Russian Federation	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
097141413	Taiwan	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
1-2011-00179	Vietnam	Pending	Self-configuration for femtocells	ATIS.3GPP.36.300V1090-2013
12/137,431	United States	Pending	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
2008261646	Australia	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
PI0813278-0	Brazil	Pending	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
2687517	Canada	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
ZL200880019615.1	China P.R.	Granted	Method and apparatus rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
HK1142192	Hong Kong	Granted	RMethod and apparatus rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
08780808.5	European Patent Convention	Pending	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
W-00201000104	Indonesia	Pending	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
202138	Israel	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
6852/CHENP/2009	India	Pending	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
5242680	Japan	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013

10-1314255	Republic of Korea	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
293348	Mexico	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
MY-149563-A	Malaysia	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
1-2009-502208	Philippines	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
2437223	Russian Federation	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
157020	Singapore	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
I420829	Taiwan	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
94664	Ukraine	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
12540	Vietnam	Granted	Rate matching with multiple code block sizes	ATIS.3GPP.36.212V1070-2013
12/576,932	United States	Pending	Time orthogonalization of reference signals	ATIS.3GPP.36.211V1070-2013
099134612	Taiwan	Pending	Time orthogonalization of reference signals	ATIS.3GPP.36.211V1070-2013
8,830,950	United States	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
2008265717	Australia	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
PI0813347-6	Brazil	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
2687862	Canada	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
200880020925.5	China P.R.	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
10108483.5	Hong Kong	Pending	Method and apparatus to support PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
08780851.5	European Patent Convention	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
IDP0033446	Indonesia	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
202395	Israel	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
6911/CHENP/2009	India	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
2010-513384	Japan	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
2013-108169	Japan	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
10-2010-7001093	Republic of Korea	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
10-1218583	Republic of Korea	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
297470	Mexico	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
MY-149809-A	Malaysia	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
581335	New Zealand	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
1-2009-502277	Philippines	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
2446629	Russian Federation	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
201204485-5	Singapore	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
I419529	Taiwan	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
96200	Ukraine	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
13119	Vietnam	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.413V1060-2013
8,830,950	United States	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
2008265717	Australia	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
PI0813347-6	Brazil	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
2687862	Canada	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
200880020925.5	China P.R.	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
10108483.5	Hong Kong	Pending	Method and apparatus to support PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
08780851.5	European Patent Convention	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013

IDP0033446	Indonesia	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
202395	Israel	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
6911/CHENP/2009	India	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
2010-513384	Japan	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
2013-108169	Japan	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
10-2010-7001093	Republic of Korea	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
10-1218583	Republic of Korea	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
297470	Mexico	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
MY-149809-A	Malaysia	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
581335	New Zealand	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
1-2009-502277	Philippines	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
2446629	Russian Federation	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
201204485-5	Singapore	Pending	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
I419529	Taiwan	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
96200	Ukraine	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
13119	Vietnam	Granted	Method and apparatus for PDCP reordering at handoff	ATIS.3GPP.36.423V1050-2013
12/141,823	United States	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Austria	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
2008265621	Australia	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
2011253859	Australia	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Belgium	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
PI0813240-2	Brazil	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
2687987	Canada	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Switzerland	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
ZL200880020771.X	China P.R.	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
201310481764.2	China P.R.	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
14108096.0	Hong Kong	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
10108900.0	Hong Kong	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Germany	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Denmark	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	European Patent Convention	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Spain	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Finland	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	France	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Great Britain	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Greece	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Hungary	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
W-00201000199	Indonesia	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Ireland	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
202311	Israel	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
228062	Israel	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013

228064	Israel	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
6944/CHENP/2009	India	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Italy	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
5209710	Japan	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
5602897	Japan	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
10-1194533	Republic of Korea	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
10-1194501	Republic of Korea	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
297750	Mexico	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
311206	Mexico	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
PI 20095253	Malaysia	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
PI 2013003152	Malaysia	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Netherlands	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Norway	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
581336	New Zealand	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
1-2009-502240	Philippines	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Poland	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Portugal	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Romania	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
2454001	Russian Federation	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
EP2172037	Sweden	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
157455	Singapore	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
I399105	Taiwan	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
102117469	Taiwan	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
96995	Ukraine	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
13118	Vietnam	Granted	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
1-2013-01863	Vietnam	Pending	Delivery of handover command	ATIS.3GPP.36.300V1090-2013
8,493,873	United States	Granted	Multiplexing of sounding signals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
PI0813473-1	Brazil	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
2687872	Canada	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
200880020753.1	China P.R.	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
10108904.6	Hong Kong	Pending	Multiplexing of sounding signals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
08771401.0	European Patent Convention	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
W-00201000176	Indonesia	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
202336	Israel	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
6913/CHENP/2009	India	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
2010-513388	Japan	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
2014-179179	Japan	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
10-1189963	Republic of Korea	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
290913	Mexico	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
2437226	Russian Federation	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
I398115	Taiwan	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013

201000309	Ukraine	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
1-2010-00127	Vietnam	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.211V1070-2013
8,493,873	United States	Granted	Multiplexing of sounding signals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
PI0813473-1	Brazil	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
2687872	Canada	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
200880020753.1	China P.R.	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
10108904.6	Hong Kong	Pending	Multiplexing of sounding signals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
08771401.0	European Patent Convention	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
W-00201000176	Indonesia	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
202336	Israel	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
6913/CHENP/2009	India	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
2010-513388	Japan	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
2014-179179	Japan	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
10-1189963	Republic of Korea	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
290913	Mexico	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
2437226	Russian Federation	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
I398115	Taiwan	Granted	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
201000309	Ukraine	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
1-2010-00127	Vietnam	Pending	Multiplexing of sounding singals in ACK and CQI channels	ATIS.3GPP.36.213V1070-2013
12/140,623	United States	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
2008265719	Australia	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
PI0813474-0	Brazil	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
2687867	Canada	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
ZL200880020729.8	China P.R.	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
10108903.7	Hong Kong	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
08771397.0	European Patent Convention	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
W-00201000172	Indonesia	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
202335	Israel	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
6910/CHENP/2009	India	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
5199347	Japan	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
2013-022085	Japan	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
10-1212074	Republic of Korea	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
10-2012-7021057	Republic of Korea	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
299909	Mexico	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
MY-151630-A	Malaysia	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
581334	New Zealand	Pending	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
1-2009-502278	Philippines	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
2511334	Russian Federation	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
157451	Singapore	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
I433581	Taiwan	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
96201	Ukraine	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013

11861	Vietnam	Granted	Method and apparatus for fast inter-system handover	ATIS.3GPP.36.331V1090-2013
8,391,400	United States	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
2008265605	Australia	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
2011200722	Australia	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
PI0812545-7	Brazil	Pending	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
2689432	Canada	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
ZL200880020994.6	China P.R.	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
10108996.5	Hong Kong	Pending	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
08780900.0	European Patent Convention	Pending	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
11173664.1	European Patent Convention	Pending	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
IDP0031427	Indonesia	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
W-00201202628	Indonesia	Pending	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
202431	Israel	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
227427	Israel	Pending	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
7154/CHENP/2009	India	Pending	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
5180296	Japan	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
5599861	Japan	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
10-1115093	Republic of Korea	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
298286	Mexico	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
MY-151681-A	Malaysia	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
581518	New Zealand	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
594831	New Zealand	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
1-2009-502346	Philippines	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
2439832	Russian Federation	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
157484	Singapore	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
I423631	Taiwan	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
98149	Ukraine	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
12731	Vietnam	Granted	Control channel format indicator frequency mapping	ATIS.3GPP.36.211V1070-2013
8,180,058	United States	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
2008265560	Australia	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
PI0812724-7	Brazil	Pending	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
2689440	Canada	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
ZL200880021046.4	China P.R.	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
10108992.9	Hong Kong	Pending	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013

08795981.3	European Patent Convention	Pending	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
IDP0031138	Indonesia	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
202432	Israel	Pending	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
7137/CHENP/2009	India	Pending	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
5215388	Japan	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
10-1243200	Republic of Korea	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
10-2012-7026884	Republic of Korea	Pending	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
296296	Mexico	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
308045	Mexico	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
PI 20095140	Malaysia	Pending	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
1-2009-502434	Philippines	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
2459375	Russian Federation	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
157488	Singapore	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
I395421	Taiwan	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
94175	Ukraine	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
12816	Vietnam	Granted	Encryption of the scheduled uplink message in random access procedure	ATIS.3GPP.36.321V1080-2013
12/144,969	United States	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
PI0813950-4	Brazil	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
2689442	Canada	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
ZL200880021943.5	China P.R.	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013

10108995.6	Hong Kong	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2172050	Germany	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2364044	Germany	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2172050	European Patent Convention	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2364044	European Patent Convention	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2172050	Spain	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2364044	Spain	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2172050	France	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2364044	France	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2172050	Great Britain	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2364044	Great Britain	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
202437	Israel	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
7198/CHENP/2009	India	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2172050	Italy	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2364044	Italy	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
4927994	Japan	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
5502915	Japan	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
10-1127330	Republic of Korea	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
288586	Mexico	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
EP2364044	Netherlands	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013

581522	New Zealand	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
1-2009-502452	Philippines	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
2474075	Russian Federation	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
I365673	Taiwan	Granted	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
201000593	Ukraine	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
1-2010-00195	Vietnam	Pending	Recovery from handoff error due to false detection of handoff completion signal at access terminal	ATIS.3GPP.36.321V1080-2013
8,503,547	United States	Granted	Scrambling codes for secondary synchronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2008310934	Australia	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI0817764-3	Brazil	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2699865	Canada	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
ZL200880110935.8	China P.R.	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
11101007.6	Hong Kong	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
08837304.8	European Patent Convention	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
W-00201001556	Indonesia	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
204553	Israel	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1561/CHENP/2010	India	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
5490705	Japan	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
10-1141362	Republic of Korea	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
302579	Mexico	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI 2010001163	Malaysia	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013

583902	New Zealand	Pending	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1-2010-500584	Philippines	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2450480	Russian Federation	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
160059	Singapore	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1380607	Taiwan	Granted	Scrambling codes for secondary synchronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
93977	Ukraine	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
12389	Vietnam	Granted	Scrambling codes for secondary sychronization codes in wireless communication systems	ATIS.3GPP.36.211V1070-2013
8,223,622	United States	Granted	Methods and systems for mobile WiMAX three-way downlink concurrent processing and three-way handover	ATIS.3GPP.36.213V1070-2013
8,565,061	United States	Granted	Methods and systems for mobile WiMAX three-way downlink concurrent processing and three-way handover	ATIS.3GPP.36.213V1070-2013
ZL200980114727.X	China P.R.	Granted	Methods and systems for mobile WIMAX three-way downlink concurrent processing and three-way handover	ATIS.3GPP.36.213V1070-2013
09751171.1	European Patent Convention	Pending	Methods and systems for mobile WIMAX three-way downlink concurrent processing and three-way handover	ATIS.3GPP.36.213V1070-2013
6922/CHENP/2010	India	Pending	Methods and systems for mobile WIMAX three-way downlink concurrent processing and three-way handover	ATIS.3GPP.36.213V1070-2013
2011-510572	Japan	Pending	Methods and systems for mobile WIMAX three-way downlink concurrent processing and three-way handover	ATIS.3GPP.36.213V1070-2013
10-1176309	Republic of Korea	Granted	Methods and systems for mobile WIMAX three-way downlink concurrent processing and three-way handover	ATIS.3GPP.36.213V1070-2013
8,787,249	United States	Granted	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
PI0908424-0	Brazil	Pending	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
2714194	Canada	Pending	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
ZL200980104487.5	China P.R.	Granted	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
11105058.5	Hong Kong	Pending	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
09708577.3	European Patent Convention	Pending	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
4383/CHENP/2010	India	Pending	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
5054202	Japan	Granted	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
10-1237853	Republic of Korea	Granted	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
2464735	Russian Federation	Granted	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
163124	Singapore	Granted	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014
1393469	Taiwan	Granted	Mobile IP multiple registrations and PCC interactions	ATIS.3GPP.23.261V1100-2014

8,571,553	United States	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
2008276143	Australia	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
PI0814080-4	Brazil	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
2692438	Canada	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
ZL200880024697.9	China P.R.	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
10112279.5	Hong Kong	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
08781864.7	European Patent Convention	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
IDP0028752	Indonesia	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
202806	Israel	Pending	Method, apparatus, and computer program for allocating pilot pseudorandom noise codes in a communication system or network	ATIS.3GPP.36.300V1090-2013
7534/CHENP/2009	India	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
5341080	Japan	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
10-1157336	Republic of Korea	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
285492	Mexico	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
MY-147664-A	Malaysia	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
582168	New Zealand	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
1-2009-502470	Philippines	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
2443061	Russian Federation	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
158210	Singapore	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
097127047	Taiwan	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
93968	Ukraine	Granted	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013

1-2010-00307	Vietnam	Pending	Methods and apparatus for resolving pilot pseudorandom noise code conflicts in a communication system	ATIS.3GPP.36.300V1090-2013
8,767,739	United States	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
2008286812	Australia	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
2012202217	Australia	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
PI0815329-9	Brazil	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
2694199	Canada	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
200880102834.6	China P.R.	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
11100552.7	Hong Kong	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
08797828.4	European Patent Convention	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
14172098.7	European Patent Convention	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
IDP0031849	Indonesia	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
W-00201202951	Indonesia	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
203393	Israel	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
224941	Israel	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
402/CHENP/2010	India	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
2010-521161	Japan	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
2012-157377	Japan	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
2013-128896	Japan	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
10-1231696	Republic of Korea	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
10-1280454	Republic of Korea	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013

307950	Mexico	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
PI 2010000292	Malaysia	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
582739	New Zealand	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
1-2010-500227	Philippines	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
1-2012-501529	Philippines	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
2444850	Russian Federation	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
158560	Singapore	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
097130899	Taiwan	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
95853	Ukraine	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
11279	Vietnam	Granted	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
1-2012-03278	Vietnam	Pending	Optimizing in-order delivery of data packets during wireless communication handover	ATIS.3GPP.36.423V1050-2013
8,576,795	United States	Granted	Method and apparatus for handoff between source and target access systems	ATIS.3GPP.36.331V1090-2013
14/061,491	United States	Pending	Method and apparatus for handoff between source and target access systems	ATIS.3GPP.36.331V1090-2013
8,467,349	United States	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
PI0814276-9	Brazil	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
2692760	Canada	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
ZL200880025486.7	China P.R.	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
10111081.5	Hong Kong	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
08796317.9	European Patent Convention	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
13177554.6	European Patent Convention	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013

13177559.5	European Patent Convention	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
13177565.2	European Patent Convention	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
203006	Israel	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
7717/CHENP/2009	India	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
5184633	Japan	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
10-1213273	Republic of Korea	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
10-2012-7000202	Republic of Korea	Pending	Method, apparatus and system for preserving packet order during hand-off	ATIS.3GPP.36.300V1090-2013
10-2013-7000389	Republic of Korea	Pending	Method, apparatus and system for preserving packet order during hand-off	ATIS.3GPP.36.300V1090-2013
307850	Mexico	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
310324	Mexico	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
1-2010-500129	Philippines	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
2449504	Russian Federation	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
201000039-6	Singapore	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
I380712	Taiwan	Granted	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
201001750	Ukraine	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
1-2010-00413	Vietnam	Pending	Methods and apparatus for in-order delivery of data packets during handoff	ATIS.3GPP.36.300V1090-2013
8,467,367	United States	Granted	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0815072-9	Brazil	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
13/897,714	United States	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2693606	Canada	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013

200880102241.X	China P.R.	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10110756.1	Hong Kong	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
08827044.2	European Patent Convention	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
W-00201000720	Indonesia	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
203396	Israel	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
814/CHENP/2010	India	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2010-520265	Japan	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2012-180092	Japan	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1203105	Republic of Korea	Granted	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
299893	Mexico	Granted	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI 2010000285	Malaysia	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2010-500179	Philippines	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2454034	Russian Federation	Granted	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
I452881	Taiwan	Granted	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2010-00534	Vietnam	Pending	Multiplexing and transmission of traffic data and control information in a wireless communication system	ATIS.3GPP.36.212V1070-2013
8,654,690	United States	Granted	Switching carriers to join a multicast session within a wireless communications network	ATIS.3GPP.36.331V1090-2013
PI0911084-4	Brazil	Pending	Switching carriers to join a multicast session in a wireless communications network	ATIS.3GPP.36.331V1090-2013
ZL200980110885.8	China P.R.	Granted	Switching carriers to join a multicast session in a wireless communications network	ATIS.3GPP.36.331V1090-2013
09727896.4	European Patent Convention	Pending	Switching carriers to join a multicast session in a wireless communications network	ATIS.3GPP.36.331V1090-2013
1879/MUMNP/2010	India	Pending	Switching carriers to join a multicast session in a wireless communications network	ATIS.3GPP.36.331V1090-2013

5318939	Japan	Granted	Switching carriers to join a multicast session in a wireless communications network	ATIS.3GPP.36.331V1090-2013
10-1225590	Republic of Korea	Granted	Switching carriers to join a multicast session in a wireless communications network	ATIS.3GPP.36.331V1090-2013
2456769	Russian Federation	Granted	Switching carriers to join a multicast session in a wireless communications network	ATIS.3GPP.36.331V1090-2013
12/368,668	United States	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
PI0907136-9	Brazil	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
200980104552.4	China P.R.	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
11103015.2	Hong Kong	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
EP2243317	Germany	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
EP2243317	European Patent Convention	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
EP2243317	Great Britain	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
IDP0032959	Indonesia	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
207102	Israel	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
4635/CHENP/2010	India	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
5129349	Japan	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
10-1189977	Republic of Korea	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
303391	Mexico	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
PI 2010003430	Malaysia	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
586887	New Zealand	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
2465742	Russian Federation	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
163301	Singapore	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
I397329	Taiwan	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
98842	Ukraine	Granted	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
1-2010-02428	Vietnam	Pending	Quality of service continuity	ATIS.3GPP.36.300V1090-2013
8,526,371	United States	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0815339-6	Brazil	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2694188	Canada	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
200880103111.8	China P.R.	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201210375519.9	China P.R.	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10111752.3	Hong Kong	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
08797821.9	European Patent Convention	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013

W-00201000810	Indonesia	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
203470	Israel	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
433/CHENP/2010	India	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5296075	Japan	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-123788	Japan	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1115146	Republic of Korea	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
306122	Mexico	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
311176	Mexico	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 2010000328	Malaysia	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2010-500246	Philippines	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2452097	Russian Federation	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I445365	Taiwan	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201002845	Ukraine	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2010-00575	Vietnam	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,526,371	United States	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0815339-6	Brazil	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2694188	Canada	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
200880103111.8	China P.R.	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
201210375519.9	China P.R.	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10111752.3	Hong Kong	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013

08797821.9	European Patent Convention	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
W-00201000810	Indonesia	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
203470	Israel	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
433/CHENP/2010	India	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5296075	Japan	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2013-123788	Japan	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1115146	Republic of Korea	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
306122	Mexico	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
311176	Mexico	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI 2010000328	Malaysia	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2010-500246	Philippines	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2452097	Russian Federation	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
I445365	Taiwan	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
201002845	Ukraine	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2010-00575	Vietnam	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.212V1070-2013
8,526,371	United States	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0815339-6	Brazil	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2694188	Canada	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200880103111.8	China P.R.	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201210375519.9	China P.R.	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013

10111752.3	Hong Kong	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
08797821.9	European Patent Convention	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00201000810	Indonesia	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
203470	Israel	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
433/CHENP/2010	India	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5296075	Japan	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-123788	Japan	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1115146	Republic of Korea	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
306122	Mexico	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
311176	Mexico	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI 2010000328	Malaysia	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2010-500246	Philippines	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2452097	Russian Federation	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I445365	Taiwan	Granted	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201002845	Ukraine	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2010-00575	Vietnam	Pending	Frequency diverse transmissions in a wireless communication system	ATIS.3GPP.36.213V1070-2013
12/190,441	United States	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2008286807	Australia	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2011216271	Australia	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0815340-0	Brazil	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013

2694192	Canada	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
200880103139.1	China P.R.	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10112259.9	Hong Kong	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
08797826.8	European Patent Convention	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
IDP0033029	Indonesia	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
W-00201204635	Indonesia	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
203394	Israel	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
224373	Israel	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
403/CHENP/2010	India	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5038502	Japan	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5456838	Japan	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2013-138812	Japan	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1159970	Republic of Korea	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1185151	Republic of Korea	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1335572	Republic of Korea	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-2013-7022955	Republic of Korea	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1335573	Republic of Korea	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-2012-7020218	Republic of Korea	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1390929	Republic of Korea	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
301433	Mexico	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013

311950	Mexico	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
MX/a/2013/005868	Mexico	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI 2010000291	Malaysia	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2010-500166	Philippines	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2443078	Russian Federation	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2011143339	Russian Federation	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
158554	Singapore	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
183684	Singapore	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
097130807	Taiwan	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
96655	Ukraine	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
98595	Ukraine	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
100618	Ukraine	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10440	Vietnam	Granted	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2012-01201	Vietnam	Pending	Method and apparatus for supporting broadcast and multicast services in a wireless communication system	ATIS.3GPP.36.321V1080-2013
8,798,183	United States	Granted	Feedback and rate adaptation for MIMO transmission in a time division duplexed (TDD) communication system	ATIS.3GPP.36.213V1070-2013
PI0814945-3	Brazil	Pending	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
ZL200880103511.9	China P.R.	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
EP2183892	Germany	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
EP2183892	European Patent Convention	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
EP2183892	Great Britain	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
203503	Israel	Pending	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
847/CHENP/2010	India	Pending	Feedback and rate adaptation for MIMO transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
5431325	Japan	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
2013-166871	Japan	Pending	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
10-1030670	Republic of Korea	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013

301522	Mexico	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
PI 2010000329	Malaysia	Pending	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
2454831	Russian Federation	Granted	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
201000522-1	Singapore	Pending	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
097130900	Taiwan	Pending	Methods and apparatuses for feedback mechanism and rate adaptation for time division duplex (TDD) MIMO systems	ATIS.3GPP.36.213V1070-2013
1-2010-00572	Vietnam	Pending	Mimo transmission with spatial pre-coding	ATIS.3GPP.36.213V1070-2013
8,009,617	United States	Granted	Beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
2008286714	Australia	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
PI0815221-7	Brazil	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
2694670	Canada	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
ZL200880102946.1	China P.R.	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
HK1143670	Hong Kong	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
08798037.1	European Patent Convention	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
IDP0031697	Indonesia	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
203623	Israel	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
895/CHENP/2010	India	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
2010-521218	Japan	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
2012-037262	Japan	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
10-1122946	Republic of Korea	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
293698	Mexico	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
PI 2010000451	Malaysia	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
1-2010-500243	Philippines	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
2444128	Russian Federation	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013

158668	Singapore	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
I404359	Taiwan	Granted	Beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
99736	Ukraine	Granted	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
1-2010-00620	Vietnam	Pending	Method and apparatus for beamforming of control information in a wireless communication system	ATIS.3GPP.36.216V1031-2013
8,009,701	United States	Granted	Secondary synchronization codebook for E-UTRAN	ATIS.3GPP.36.211V1070-2013
13/214,602	United States	Pending	Secondary synchronization codebook for E-UTRAN	ATIS.3GPP.36.211V1070-2013
8,743,887	United States	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
2008311025	Australia	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
PI 0818091-1	Brazil	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
2701836	Canada	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
ZL200880119891.5	China P.R.	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
11105060.1	Hong Kong	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
08837902.9	European Patent Convention	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
W-00201001489	Indonesia	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
204906	Israel	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
2075/CHENP/2010	India	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
5329550	Japan	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
10-1136301	Republic of Korea	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
304333	Mexico	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
1-2010-500759	Philippines	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
2455790	Russian Federation	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014

160691	Singapore	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
I370696	Taiwan	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
98010	Ukraine	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
1-2010-01161	Vietnam	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.23.221V1110-2014
8,743,887	United States	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
2008311025	Australia	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
PI 0818091-1	Brazil	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
2701836	Canada	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
ZL200880119891.5	China P.R.	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
11105060.1	Hong Kong	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
08837902.9	European Patent Convention	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
W-00201001489	Indonesia	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
204906	Israel	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
2075/CHENP/2010	India	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
5329550	Japan	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
10-1136301	Republic of Korea	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
304333	Mexico	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
1-2010-500759	Philippines	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
2455790	Russian Federation	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
160691	Singapore	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014

I370696	Taiwan	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
98010	Ukraine	Granted	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
1-2010-01161	Vietnam	Pending	Methods and apparatus for mobility support and IP multimedia subsystem (IMS) registration in a multimode network environment	ATIS.3GPP.24.301V1160-2014
12/260,908	United States	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2008318573	Australia	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
PI0818120-9	Brazil	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2702343	Canada	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
200880113844.X	China P.R.	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
11102800.3	Hong Kong	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
08845231.3	European Patent Convention	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
IDP0031936	Indonesia	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
205365	Israel	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2108/CHENP/201	India	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
5175359	Japan	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
10-1159976	Republic of Korea	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
10-1184399	Republic of Korea	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
303173	Mexico	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
PI 2010001599	Malaysia	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
584495	New Zealand	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
1-2010-500879	Philippines	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
2476009	Russian Federation	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
160860	Singapore	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
I379612	Taiwan	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
96083	Ukraine	Granted	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
1-2010-01382	Vietnam	Pending	Resource scaling in wireless communication systems	ATIS.3GPP.36.300V1090-2013
8,520,698	United States	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
2008296334	Australia	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
2012206977	Australia	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
PI0816294-8	Brazil	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
2698263	Canada	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
200880105474.5	China P.R.	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
201210567316.X	China P.R.	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
13111623.7	Hong Kong	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
10111753.2	Hong Kong	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
13/620,105	United States	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
08829344.4	European Patent Convention	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
W-00201001047	Indonesia	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
203784	Israel	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013

1132/CHENP/2010	India	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
5129334	Japan	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
2012-241686	Japan	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
10-1129552	Republic of Korea	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
308535	Mexico	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
PI 2010000577	Malaysia	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
PI 2014001732	Malaysia	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
1-2010-500348	Philippines	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
2454042	Russian Federation	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
159138	Singapore	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
I380723	Taiwan	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
97010	Ukraine	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
12957	Vietnam	Granted	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
1-2013-02795	Vietnam	Pending	Paging user devices in a wireless access network	ATIS.3GPP.36.304V1060-2013
12/269,611	United States	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
2008322587	Australia	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
PI0820192-7	Brazil	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
2704540	Canada	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
200880116105.6	China P.R.	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
11103677.1	Hong Kong	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
08849141.0	European Patent Convention	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
W-00201001998	Indonesia	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
205521	Israel	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
2671/CHENP/2010	India	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
5415439	Japan	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
2013-161872	Japan	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
10-1171516	Republic of Korea	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013

306441	Mexico	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
PI 2010002007	Malaysia	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
585018	New Zealand	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
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2468534	Russian Federation	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
161405	Singapore	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
I392385	Taiwan	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
96866	Ukraine	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
1-2010-01527	Vietnam	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.304V1060-2013
12/269,611	United States	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
2008322587	Australia	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
PI0820192-7	Brazil	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
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11103677.1	Hong Kong	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
08849141.0	European Patent Convention	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
W-00201001998	Indonesia	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
205521	Israel	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
2671/CHENP/2010	India	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
5415439	Japan	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013

2013-161872	Japan	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
10-1171516	Republic of Korea	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
306441	Mexico	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
PI 2010002007	Malaysia	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
585018	New Zealand	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
1-2010-500999	Philippines	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
2468534	Russian Federation	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
161405	Singapore	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
I392385	Taiwan	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
96866	Ukraine	Granted	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
1-2010-01527	Vietnam	Pending	Utilizing restriction codes in wireless access point connection attempts	ATIS.3GPP.36.331V1090-2013
8,848,656	United States	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
2008322589	Australia	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
2012216407	Australia	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
PI 0819808-0	Brazil	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
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11105734.7	Hong Kong	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
14/484,932	United States	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013

08850451.9	European Patent Convention	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
W-00201002002	Indonesia	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
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228173	Israel	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
2920/CHENP/2010	India	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
2013-156101	Japan	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
2013-156102	Japan	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
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10-2012-7021989	Republic of Korea	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
302701	Mexico	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
311208	Mexico	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
PI 2010002163	Malaysia	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
585201	New Zealand	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
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1-2013-500704	Philippines	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
2458482	Russian Federation	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
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100626	Ukraine	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
11641	Vietnam	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.304V1060-2013
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228173	Israel	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.331V1090-2013
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161535	Singapore	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.331V1090-2013
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100626	Ukraine	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.331V1090-2013
11641	Vietnam	Granted	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.331V1090-2013
1-2013-01297	Vietnam	Pending	Utilizing broadcast signals to convey restricted association information	ATIS.3GPP.36.331V1090-2013
12/269,642	United States	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
2008322501	Australia	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
PI08201943	Brazil	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
2705828	Canada	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
200880124839.9	China P.R.	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
11105733.8	Hong Kong	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
08848721.0	European Patent Convention	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
W-00201002017	Indonesia	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
205688	Israel	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
2988/CHENP/2010	India	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
5384510	Japan	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013

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10-2012-7020134	Republic of Korea	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
309333	Mexico	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
PI 2010002209	Malaysia	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
585292	New Zealand	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
1-2010- 501123	Philippines	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
2467511	Russian Federation	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
161539	Singapore	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
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99935	Ukraine	Granted	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
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1-2013-01982	Vietnam	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.304V1060-2013
12/269,642	United States	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.331V1090-2013
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2988/CHENP/2010	India	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.331V1090-2013
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1-2013-01982	Vietnam	Pending	Classifying access points using pilot identifiers	ATIS.3GPP.36.331V1090-2013
12/269,666	United States	Pending	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	Austria	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
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EP2218278	Belgium	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013

PI0820206-0	Brazil	Pending	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
2703886	Canada	Pending	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	Switzerland	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
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EP2218278	Denmark	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	European Patent Convention	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	Spain	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	Finland	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	France	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	Great Britain	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	Greece	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
EP2218278	Hungary	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
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EP2218278	Ireland	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
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2516/CHENP/2010	India	Pending	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
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EP2218278	Sweden	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
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99316	Ukraine	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
11817	Vietnam	Granted	Resolving node identifier confusion	ATIS.3GPP.36.300V1090-2013
12/269,666	United States	Pending	Resolving node identifier confusion	ATIS.3GPP.36.331V1090-2013
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EP2218278	Belgium	Granted	Resolving node identifier confusion	ATIS.3GPP.36.331V1090-2013

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EP2218278	Denmark	Granted	Resolving node identifier confusion	ATIS.3GPP.36.331V1090-2013
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EP2218278	Sweden	Granted	Resolving node identifier confusion	ATIS.3GPP.36.331V1090-2013
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11817	Vietnam	Granted	Resolving node identifier confusion	ATIS.3GPP.36.331V1090-2013
12/272,665	United States	Pending	Access point configuration schemes	ATIS.3GPP.36.300V1090-2013
PI0820621-0	Brazil	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
2706137	Canada	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
ZL200880124905.2	China P.R.	Granted	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013

11105671.2	Hong Kong	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
08852802.1	European Patent Convention	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
W-00201002062	Indonesia	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
205886	Israel	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
3090/CHENP/2010	India	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
5113260	Japan	Granted	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
10-1189983	Republic of Korea	Granted	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
311528	Mexico	Granted	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
PI 2010002325	Malaysia	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
585452	New Zealand	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
2467479	Russian Federation	Granted	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
I416964	Taiwan	Granted	Access point configuration schemes	ATIS.3GPP.36.300V1090-2013
201007605	Ukraine	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
1-2010-01575	Vietnam	Pending	Configuring an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
7,860,036	United States	Granted	Methods and apparatus for including mode information in a frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Belgium	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Bulgaria	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
PI0816306-5	Brazil	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
8,780,767	United States	Granted	Methods and apparatus for including mode information in a frame for system acquisition	ATIS.3GPP.36.331V1090-2013
200880106398.X	China P.R.	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
11100534.0	Hong Kong	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Czech Republic	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Germany	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013

EP2204062	European Patent Convention	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
10016170.2	European Patent Convention	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Spain	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Finland	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	France	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Great Britain	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Hungary	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
W-00201001095	Indonesia	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Ireland	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
203780	Israel	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
1210/CHENP/2010	India	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Italy	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
5275354	Japan	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013

10-1095811	Republic of Korea	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
10-1159491	Republic of Korea	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
298904	Mexico	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Netherlands	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Norway	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Poland	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Romania	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
2460245	Russian Federation	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
EP2204062	Sweden	Granted	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
I401935	Taiwan	Granted	Methods and apparatus for including mode information in a frame for system acquisition	ATIS.3GPP.36.331V1090-2013
201004163	Ukraine	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
1-2010-00889	Vietnam	Pending	Methods and apparatus for including communication mode information (TDD or FDD) in a transmission frame for system acquisition	ATIS.3GPP.36.331V1090-2013
12/248,836	United States	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2008310687	Australia	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2012200997	Australia	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2012200996	Australia	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
PI0818446-1	Brazil	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
PI0823516-3	Brazil	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013

PI0823517-1	Brazil	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2702110	Canada	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2793805	Canada	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2793740	Canada	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
200880115519.7	China P.R.	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
201310116948.9	China P.R.	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
14100337.6	Hong Kong	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
201310117140.2	China P.R.	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
14102062.3	Hong Kong	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
11103439.0	Hong Kong	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
08837724.7	European Patent Convention	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
IDP000035133	Indonesia	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
205031	Israel	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
226306	Israel	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2194/CHENP/2010	India	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2010-529103	Japan	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
5405642	Japan	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2012-233162	Japan	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2014-205043	Japan	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
10-1176720	Republic of Korea	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
10-1238815	Republic of Korea	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
10-1305112	Republic of Korea	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
300029	Mexico	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
301167	Mexico	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
306996	Mexico	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
PI 2010001600	Malaysia	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
PI 2014001758	Malaysia	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
PI 2014001757	Malaysia	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
584665	New Zealand	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
1-2010-500776	Philippines	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
1-2013-500341	Philippines	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
2455766	Russian Federation	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
160685	Singapore	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
201300251-4	Singapore	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
201300253-0	Singapore	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
097139250	Taiwan	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
102105889	Taiwan	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
102105886	Taiwan	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
99154	Ukraine	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
102031	Ukraine	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
102766	Ukraine	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013

10445	Vietnam	Granted	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
1-2011-02875	Vietnam	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
1-2011-02876	Vietnam	Pending	FEMTO cell synchronization and pilot search methodology	ATIS.3GPP.36.413V1060-2013
8,260,249	United States	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
EP2191675	Austria	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Belgium	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
PI0817058-4	Brazil	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
2696412	Canada	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
EP2191675	Switzerland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
200880107533.2	China P.R.	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
11100536.8	Hong Kong	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
8,824,996	United States	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
EP2191675	Germany	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Denmark	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	European Patent Convention	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Spain	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Finland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	France	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Great Britain	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Greece	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Hungary	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
W-00201001212	Indonesia	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
EP2191675	Ireland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
203912	Israel	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
782/CHENP/2010	India	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
EP2191675	Italy	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
2010-525924	Japan	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
2014-151193	Japan	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
10-1179178	Republic of Korea	Granted	Method and apparatus for a public warning system	ATIS.3GPP.36.304V1060-2013
10-2012-7014921	Republic of Korea	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
302705	Mexico	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
EP2191675	Netherlands	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Norway	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Poland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Portugal	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
EP2191675	Romania	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
2461995	Russian Federation	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
EP2191675	Sweden	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.304V1060-2013
I387243	Taiwan	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
1-2010-00961	Vietnam	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.304V1060-2013
8,260,249	United States	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013

EP2191675	Austria	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Belgium	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
PI0817058-4	Brazil	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
2696412	Canada	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
EP2191675	Switzerland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
200880107533.2	China P.R.	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
11100536.8	Hong Kong	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
8,824,996	United States	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
EP2191675	Germany	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Denmark	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	European Patent Convention	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Spain	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Finland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	France	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Great Britain	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Greece	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Hungary	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
W-00201001212	Indonesia	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
EP2191675	Ireland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
203912	Israel	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
782/CHENP/2010	India	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
EP2191675	Italy	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
2010-525924	Japan	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
2014-151193	Japan	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
10-1179178	Republic of Korea	Granted	Method and apparatus for a public warning system	ATIS.3GPP.36.331V1090-2013
10-2012-7014921	Republic of Korea	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
302705	Mexico	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
EP2191675	Netherlands	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Norway	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Poland	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Portugal	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
EP2191675	Romania	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
2461995	Russian Federation	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
EP2191675	Sweden	Granted	Public warning method and corresponding apparatus	ATIS.3GPP.36.331V1090-2013
I387243	Taiwan	Granted	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
1-2010-00961	Vietnam	Pending	Method and apparatus of power control for a public warning system	ATIS.3GPP.36.331V1090-2013
12/241,405	United States	Granted	Medium access control header format	ATIS.3GPP.36.321V1080-2013
PI 0818413-5	Brazil	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
14/517,456	United States	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
2699346	Canada	Granted	Medium access control header format	ATIS.3GPP.36.321V1080-2013
200880109637.7	China P.R.	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013

11101003.0	Hong Kong	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
08836371.8	European Patent Convention	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
204409	Israel	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
1343/CHENP/2010	India	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
5096586	Japan	Granted	Medium access control header format	ATIS.3GPP.36.321V1080-2013
10-1129850	Republic of Korea	Granted	An apparatus, method and computer readable medium that facilitates employing a plurality of medium access control header formats	ATIS.3GPP.36.321V1080-2013
299205	Mexico	Granted	Medium access control header format	ATIS.3GPP.36.321V1080-2013
PI 2010000953	Malaysia	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
2461987	Russian Federation	Granted	Medium access control header format	ATIS.3GPP.36.321V1080-2013
I403141	Taiwan	Granted	Medium access control header format	ATIS.3GPP.36.321V1080-2013
1-2010-00833	Vietnam	Pending	Medium access control header format	ATIS.3GPP.36.321V1080-2013
8,873,471	United States	Granted	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
PI 0818417-8	Brazil	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
11101002.1	Hong Kong	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
08836241.3	European Patent Convention	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
204415	Israel	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
1341/CHENP/2010	India	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
2010-528104	Japan	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
10-1166635	Republic of Korea	Granted	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
305873	Mexico	Granted	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
PI 2010000952	Malaysia	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
2452135	Russian Federation	Granted	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
097137813	Taiwan	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
201005283	Ukraine	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
1-2010-01112	Vietnam	Pending	Method and apparatus for implementing LTE RLC header formats	ATIS.3GPP.36.322V1000-2011
8,588,738	United States	Granted	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
PI0818416-0	Brazil	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
14/082,646	United States	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
200880118764.3	China P.R.	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
11104217.6	Hong Kong	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
08835586.2	European Patent Convention	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
204573	Israel	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
1792/CHENP/2010	India	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
5175356	Japan	Granted	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
10-2010-7009732	Republic of Korea	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
10-2012-7025548	Republic of Korea	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
10-2014-7005259	Republic of Korea	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
MX/a/2010/003407	Mexico	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
584015	New Zealand	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013

1-2010-500697	Philippines	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
098100744	Taiwan	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
96850	Ukraine	Granted	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
1-2010-01107	Vietnam	Pending	Mobile access in a diverse access point network	ATIS.3GPP.36.304V1060-2013
12/248,303	United States	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
2008310742	Australia	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
PI 0818089-0	Brazil	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
2699509	Canada	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
200880110904.2	China P.R.	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
11101008.5	Hong Kong	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
08838150.4	European Patent Convention	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
14189613.4	European Patent Convention	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
W-00201001537	Indonesia	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
204549	Israel	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
1447/CHENP/2010	India	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
5405473	Japan	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
5607200	Japan	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
10-1329217	Republic of Korea	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
10-1383189	Republic of Korea	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
10-1357707	Republic of Korea	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
10-2012-7015757	Republic of Korea	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
307427	Mexico	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
PI 2010001028	Malaysia	Pending	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
1-2010-500630	Philippines	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
2452120	Russian Federation	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
159998	Singapore	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
I411258	Taiwan	Granted	Efficient system identification schemes for Communication Systems	ATIS.3GPP.36.211V1070-2013
97020	Ukraine	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
11437	Vietnam	Granted	Efficient system identification schemes for communication systems	ATIS.3GPP.36.211V1070-2013
8,285,281	United States	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
2008318903	Australia	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
PI0818806-8	Brazil	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
2702251	Canada	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
200880113842.0	China P.R.	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
11102802.1	Hong Kong	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
EP2206370	Germany	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
EP2206370	European Patent Convention	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
11153320.4	European Patent Convention	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
11111125.2	Hong Kong	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
EP2206370	Great Britain	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
IDP0033088	Indonesia	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013

205232	Israel	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
1954/CHENP/2010	India	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
5474806	Japan	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
10-1203097	Republic of Korea	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
10-2012-7020020	Republic of Korea	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
300035	Mexico	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
MY-152315-A	Malaysia	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
1-2010-500808	Philippines	Pending	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
2461984	Russian Federation	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
160759	Singapore	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
I387366	Taiwan	Granted	Methods and apparatus for self configuring network	ATIS.3GPP.36.300V1090-2013
99748	Ukraine	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
12624	Vietnam	Granted	Methods and apparatus for self configuring network relations	ATIS.3GPP.36.300V1090-2013
8,254,244	United States	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2008318862	Australia	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
PI0818134-9	Brazil	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
13/587,643	United States	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2702294	Canada	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
ZL200880114166.9	China P.R.	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
201310249991.2	China P.R.	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
14102747.6	Hong Kong	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
HK1146989	Hong Kong	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
08843665.4	European Patent Convention	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
IDP0033457	Indonesia	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
205227	Israel	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
1955/CHENP/2010	India	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
5199378	Japan	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013

10-1115212	Republic of Korea	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
303410	Mexico	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
PI 2010001526	Malaysia	Pending	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
584436	New Zealand	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
1-2010-500743	Philippines	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
2451404	Russian Federation	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
160762	Singapore	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
I415412	Taiwan	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
98355	Ukraine	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
12958	Vietnam	Granted	Arrangement and method for transmitting control information in wireless communication systems	ATIS.3GPP.36.213V1070-2013
8,639,997	United States	Granted	Buffer status report triggers in wireless communications	ATIS.3GPP.36.321V1080-2013
13/931,172	United States	Pending	Buffer status report triggers in wireless communications	ATIS.3GPP.36.321V1080-2013
098129743	Taiwan	Pending	Buffer status report triggers in wireless communications	ATIS.3GPP.36.321V1080-2013
8,208,498	United States	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
2008318774	Australia	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
PI0818136-5	Brazil	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
8,774,231	United States	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
201310045903.7	China P.R.	Pending	METHODS AND SYSTEMS FOR HFN HANDLING AT INTER-BASE STATION HANDOVER IN MOBILE COMMUNICATION NETWORKS	ATIS.3GPP.36.413V1060-2013
11102797.8	Hong Kong	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
08844777.6	European Patent Convention	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
W-00201001682	Indonesia	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013

205367	Israel	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
1996/CHENP/2010	India	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
4976558	Japan	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
5502929	Japan	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
10-1239056	Republic of Korea	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
10-1433327	Republic of Korea	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
299528	Mexico	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
MX/a/2012/006059	Mexico	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
2466511	Russian Federation	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
160864	Singapore	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
1388171	Taiwan	Granted	Methods and systems for HFN handling at inter-base stations handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
96673	Ukraine	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
1-2010-01377	Vietnam	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.413V1060-2013
8,208,498	United States	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
2008318774	Australia	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
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8,774,231	United States	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
201310045903.7	China P.R.	Pending	METHODS AND SYSTEMS FOR HFN HANDLING AT INTER-BASE STATION HANDOVER IN MOBILE COMMUNICATION NETWORKS	ATIS.3GPP.36.423V1050-2013
11102797.8	Hong Kong	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
08844777.6	European Patent Convention	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013

W-00201001682	Indonesia	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
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1996/CHENP/2010	India	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
4976558	Japan	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
5502929	Japan	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
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10-1433327	Republic of Korea	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
299528	Mexico	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
MX/a/2012/006059	Mexico	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
2466511	Russian Federation	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
160864	Singapore	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
I388171	Taiwan	Granted	Methods and systems for HFN handling at inter-base stations handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
96673	Ukraine	Granted	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
1-2010-01377	Vietnam	Pending	Methods and systems for HFN handling at inter-base station handover in mobile communication networks	ATIS.3GPP.36.423V1050-2013
8,208,394	United States	Granted	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
2008318568	Australia	Granted	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
PI0818811-4	Brazil	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
11102799.6	Hong Kong	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
W-00201001702	Indonesia	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
205226	Israel	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
1999/CHENP/2010	India	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
2010-532258	Japan	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
10-2010-7012039	Republic of Korea	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
MX/a/2010/004609	Mexico	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
2439824	Russian Federation	Granted	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
097141894	Taiwan	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013
1-2010-01378	Vietnam	Pending	Service data unit discard timers	ATIS.3GPP.36.323V1020-2013

8,705,506	United States	Granted	Time reservation for a dominant interference scenario in a wireless communication network	ATIS.3GPP.36.423V1050-2013
PI0820193-5	Brazil	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
2705532	Canada	Granted	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
ZL200880120779.3	China P.R.	Granted	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
11105066.5	Hong Kong	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
08849226.9	European Patent Convention	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
205654	Israel	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
2919/CHENP/2010	India	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013

5606918	Japan	Granted	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
2013-141778	Japan	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
10-1220963	Republic of Korea	Granted	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
10-1458464	Republic of Korea	Granted	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and interfering base station	ATIS.3GPP.36.423V1050-2013
10-2013-7022405	Republic of Korea	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and interfering base station	ATIS.3GPP.36.423V1050-2013
MX/a/2010/005363	Mexico	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
PI 2010002264	Malaysia	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
2486712	Russian Federation	Granted	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
I389580	Taiwan	Granted	Time reservation for a dominant interference scenario in a wireless communication network	ATIS.3GPP.36.423V1050-2013

97562	Ukraine	Granted	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
1-2010-01536	Vietnam	Pending	Time slot reservation for a dominant interference scenario in a wireless communication network through direct communication between interfered and Interfering base station	ATIS.3GPP.36.423V1050-2013
12/723,469	United States	Pending	Concurrent transmission of ACK/NACK, CQI and CQI from user equipment	ATIS.3GPP.36.211V1070-2013
8,848,620	United States	Granted	Simultaneous transmission of acknowledgement, channel quality indicator and scheduling request	ATIS.3GPP.36.213V1070-2013
PI0907767-7	Brazil	Pending	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
14/489,277	United States	Pending	Simultaneous transmission of acknowledgement, channel quality indicator and scheduling request	ATIS.3GPP.36.213V1070-2013
2711574	Canada	Granted	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
200980104038.0	China P.R.	Pending	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
UNKNOWN	China P.R.	Pending	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
09708953.6	European Patent Convention	Pending	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
4352/CHENP/2010	India	Pending	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
5437275	Japan	Granted	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
2013-186793	Japan	Pending	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
10-1168124	Republic of Korea	Granted	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
2507721	Russian Federation	Granted	Control information allocation method in a communications system	ATIS.3GPP.36.213V1070-2013
I429253	Taiwan	Granted	Simultaneous transmission of acknowledgement, channel quality indicator and scheduling request	ATIS.3GPP.36.213V1070-2013
103100861	Taiwan	Pending	Simultaneous transmission of acknowledgement, channel quality indicator and scheduling request	ATIS.3GPP.36.213V1070-2013
8,665,857	United States	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Austria	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2008338454	Australia	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Belgium	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013

PI 0820126-9	Brazil	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2705279	Canada	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Switzerland	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
ZL200880121368.6	China P.R.	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
11105069.2	Hong Kong	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Germany	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2395805	Germany	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Denmark	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	European Patent Convention	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2395805	European Patent Convention	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Spain	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Finland	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	France	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Great Britain	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2395805	Great Britain	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Greece	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013

EP2232939	Hungary	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
IDP0032863	Indonesia	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Ireland	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
205834	Israel	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2758/CHENP/2010	India	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Italy	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5474822	Japan	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1218060	Republic of Korea	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
301956	Mexico	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI 2010002026	Malaysia	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Netherlands	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Norway	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
585076	New Zealand	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2010-501121	Philippines	Pending	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Poland	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Portugal	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013

EP2232939	Romania	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2463743	Russian Federation	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
EP2232939	Sweden	Granted	Methods, user equipment and computer readable medium for transmitting and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
161956	Singapore	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
I392262	Taiwan	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
97433	Ukraine	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
11561	Vietnam	Granted	Method and apparatus for sending and receiving random access response in a wireless communication system	ATIS.3GPP.36.321V1080-2013
12/337,383	United States	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
2008345658	Australia	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
2013228044	Australia	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
PI0821093-4	Brazil	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
2705343	Canada	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
2864505	Canada	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
200880121391.5	China P.R.	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
201410543599.3	China P.R.	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013

11105068.3	Hong Kong	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
08867246.4	European Patent Convention	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
W-00201002458	Indonesia	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
205837	Israel	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
3138/CHENP/2010	India	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
5318884	Japan	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
2013-106178	Japan	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
10-1219480	Republic of Korea	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
10-1276688	Republic of Korea	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
10-1276266	Republic of Korea	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
10-2012-7030914	Republic of Korea	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
302187	Mexico	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
PI 2010002024	Malaysia	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013

1-2010-501184	Philippines	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
2463742	Russian Federation	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
2505947	Russian Federation	Granted	Method and apparatuses for transfer of first scheduled transmission using control channel	ATIS.3GPP.36.321V1080-2013
201209240-9	Singapore	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
l426731	Taiwan	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
97721	Ukraine	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
100939	Ukraine	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
11694	Vietnam	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.321V1080-2013
12/337,383	United States	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
2008345658	Australia	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
2013228044	Australia	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
PI0821093-4	Brazil	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
2705343	Canada	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
2864505	Canada	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013

200880121391.5	China P.R.	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
201410543599.3	China P.R.	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
11105068.3	Hong Kong	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
08867246.4	European Patent Convention	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
W-00201002458	Indonesia	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
205837	Israel	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
3138/CHENP/2010	India	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
5318884	Japan	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
2013-106178	Japan	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
10-1219480	Republic of Korea	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
10-1276688	Republic of Korea	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
10-1276266	Republic of Korea	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
10-2012-7030914	Republic of Korea	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013

302187	Mexico	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
PI 2010002024	Malaysia	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
1-2010-501184	Philippines	Pending	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
2463742	Russian Federation	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
2505947	Russian Federation	Granted	Method and apparatuses for transfer of first scheduled transmission using control channel	ATIS.3GPP.36.331V1090-2013
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I426731	Taiwan	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
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100939	Ukraine	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
11694	Vietnam	Granted	Method and apparatus for transfer of a message on a common control channel for random access in a wireless communication network	ATIS.3GPP.36.331V1090-2013
8,180,335	United States	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
PI0906775-2	Brazil	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
13/467,667	United States	Pending	Notification of modification of system information in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2710325	Canada	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
201310017576.4	China P.R.	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
09700838.7	European Patent Convention	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013

12198050.2	European Patent Convention	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
206373	Israel	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
3952/CHENP/2010	India	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
4991941	Japan	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
10-1166309	Republic of Korea	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
299086	Mexico	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
PI 2010002827	Malaysia	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
1-2010-501410	Philippines	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
2470492	Russian Federation	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
I373978	Taiwan	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
201009954	Ukraine	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
1-2010-02023	Vietnam	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.211V1070-2013
8,180,335	United States	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
PI0906775-2	Brazil	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
13/467,667	United States	Pending	Notification of modification of system information in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2710325	Canada	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
201310017576.4	China P.R.	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
09700838.7	European Patent Convention	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
12198050.2	European Patent Convention	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
206373	Israel	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013

3952/CHENP/2010	India	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
4991941	Japan	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
10-1166309	Republic of Korea	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
299086	Mexico	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
PI 2010002827	Malaysia	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
1-2010-501410	Philippines	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
2470492	Russian Federation	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
I373978	Taiwan	Granted	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
201009954	Ukraine	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
1-2010-02023	Vietnam	Pending	System information modification notification and detection in wireless communications	ATIS.3GPP.36.331V1090-2013
8,472,967	United States	Granted	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
ZL200980103872.8	China P.R.	Granted	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
09707222.7	European Patent Convention	Pending	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
4126/CHENP/2010	India	Pending	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
5129348	Japan	Granted	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
10-1352988	Republic of Korea	Granted	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
10-2012-7031361	Republic of Korea	Pending	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
098103262	Taiwan	Pending	Allocating transmit power among two or more carriers assigned to a wireless communication device	T1.3GPP.25.214V3120-2004
8,787,181	United States	Granted	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
PI0907180-6	Brazil	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
2711276	Canada	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
ZL200980102165.7	China P.R.	Granted	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
201410058006.4	China P.R.	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013

11105687.4	Hong Kong	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
09701507.7	European Patent Convention	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
10188387.4	European Patent Convention	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
W-00201002780	Indonesia	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
206649	Israel	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
4059/CHENP/2010	India	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
5362745	Japan	Granted	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
2013-147065	Japan	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
2014-161200	Japan	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
10-1228956	Republic of Korea	Granted	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
MX/a/2010/007712	Mexico	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
PI 2010003081	Malaysia	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
2497223	Russian Federation	Granted	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
2013131257	Russian Federation	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
1445417	Taiwan	Granted	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
103119309	Taiwan	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
201009995	Ukraine	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
1-2010-02215	Vietnam	Pending	Resource allocation randomization	ATIS.3GPP.36.211V1070-2013
8,213,405	United States	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Austria	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
2009210525	Australia	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Belgium	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
PI0907142-3	Brazil	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
2713798	Canada	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Switzerland	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
ZL200980112011.6	China P.R.	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
11109053.2	Hong Kong	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Germany	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Denmark	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	European Patent Convention	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Spain	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Finland	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	France	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Great Britain	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Greece	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Hungary	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
W-00201002989	Indonesia	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Ireland	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
207300	Israel	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
5006/CHENP/2010	India	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Italy	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013

5341109	Japan	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
10-1178306	Republic of Korea	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
306241	Mexico	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
PI 2010003620	Malaysia	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
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EP2243324	Norway	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
1-2010-501761	Philippines	Pending	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Poland	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Portugal	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
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2459360	Russian Federation	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
EP2243324	Sweden	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
163420	Singapore	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
I393377	Taiwan	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
98533	Ukraine	Granted	Wireless network synchronization	ATIS.3GPP.36.413V1060-2013
8,855,007	United States	Granted	Configuring an identifier for an access point	ATIS.3GPP.32.500V1110-2014
2008326520	Australia	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
PI 0820620-1	Brazil	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
14/472,855	United States	Pending	Configuring an identifier for an access point	ATIS.3GPP.32.500V1110-2014
2706134	Canada	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
200880124904.8	China P.R.	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
11105670.3	Hong Kong	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
08852328.7	European Patent Convention	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
IDP0030706	Indonesia	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
205887	Israel	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
3091/CHENP/2010	India	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
5059945	Japan	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
2012-171814	Japan	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
2014-231699	Japan	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
10-1180983	Republic of Korea	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
300106	Mexico	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
PI 2010002326	Malaysia	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
1-2010-501160	Philippines	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
2456770	Russian Federation	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
161977	Singapore	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
I400967	Taiwan	Granted	Configuring an identifier for an access point	ATIS.3GPP.32.500V1110-2014
98020	Ukraine	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
1-2010-01577	Vietnam	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.32.500V1110-2014
8,855,007	United States	Granted	Configuring an identifier for an access point	ATIS.3GPP.36.300V1090-2013
2008326520	Australia	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
PI 0820620-1	Brazil	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013

14/472,855	United States	Pending	Configuring an identifier for an access point	ATIS.3GPP.36.300V1090-2013
2706134	Canada	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
200880124904.8	China P.R.	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
11105670.3	Hong Kong	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
08852328.7	European Patent Convention	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
IDP0030706	Indonesia	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
205887	Israel	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
3091/CHENP/2010	India	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
5059945	Japan	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
2012-171814	Japan	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
2014-231699	Japan	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
10-1180983	Republic of Korea	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
300106	Mexico	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
PI 2010002326	Malaysia	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
1-2010-501160	Philippines	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
2456770	Russian Federation	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
161977	Singapore	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
I400967	Taiwan	Granted	Configuring an identifier for an access point	ATIS.3GPP.36.300V1090-2013
98020	Ukraine	Granted	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
1-2010-01577	Vietnam	Pending	Configuring an identifier for an access point of a FEMTO cell	ATIS.3GPP.36.300V1090-2013
12/246,394	United States	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
2008311004	Australia	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
PI0818612-0	Brazil	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
2701924	Canada	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
200880119447.3	China P.R.	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
11104474.4	Hong Kong	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
08837009.3	European Patent Convention	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
10189503.5	European Patent Convention	Pending	Access management for access point base stations	ATIS.3GPP.36.300V1090-2013
W-00201001491	Indonesia	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
204871	Israel	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
2076/CHENP/2010	India	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
5290303	Japan	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
2013-044555	Japan	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
10-1261347	Republic of Korea	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
10-1410371	Republic of Korea	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
10-2012-7031339	Republic of Korea	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
10-2012-7034229	Republic of Korea	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
310529	Mexico	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
MY-152239-A	Malaysia	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
584444	New Zealand	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
1-2010-500756	Philippines	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013

2488238	Russian Federation	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
160665	Singapore	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
I415492	Taiwan	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
97019	Ukraine	Granted	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
1-2010-01171	Vietnam	Pending	Access terminal configuration and access control	ATIS.3GPP.36.300V1090-2013
12/246,394	United States	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
2008311004	Australia	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
PI0818612-0	Brazil	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
2701924	Canada	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
200880119447.3	China P.R.	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
11104474.4	Hong Kong	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
08837009.3	European Patent Convention	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
10189503.5	European Patent Convention	Pending	Access management for access point base stations	ATIS.3GPP.36.304V1060-2013
W-00201001491	Indonesia	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
204871	Israel	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
2076/CHENP/2010	India	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
5290303	Japan	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
2013-044555	Japan	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
10-1261347	Republic of Korea	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
10-1410371	Republic of Korea	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
10-2012-7031339	Republic of Korea	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
10-2012-7034229	Republic of Korea	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
310529	Mexico	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
MY-152239-A	Malaysia	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
584444	New Zealand	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
1-2010-500756	Philippines	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
2488238	Russian Federation	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
160665	Singapore	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
I415492	Taiwan	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
97019	Ukraine	Granted	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
1-2010-01171	Vietnam	Pending	Access terminal configuration and access control	ATIS.3GPP.36.304V1060-2013
12/246,394	United States	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
2008311004	Australia	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
PI0818612-0	Brazil	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
2701924	Canada	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
200880119447.3	China P.R.	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
11104474.4	Hong Kong	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
08837009.3	European Patent Convention	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
10189503.5	European Patent Convention	Pending	Access management for access point base stations	ATIS.3GPP.36.331V1090-2013
W-00201001491	Indonesia	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
204871	Israel	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013

2076/CHENP/2010	India	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
5290303	Japan	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
2013-044555	Japan	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
10-1261347	Republic of Korea	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
10-1410371	Republic of Korea	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
10-2012-7031339	Republic of Korea	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
10-2012-7034229	Republic of Korea	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
310529	Mexico	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
MY-152239-A	Malaysia	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
584444	New Zealand	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
1-2010-500756	Philippines	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
2488238	Russian Federation	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
160665	Singapore	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
I415492	Taiwan	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
97019	Ukraine	Granted	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
1-2010-01171	Vietnam	Pending	Access terminal configuration and access control	ATIS.3GPP.36.331V1090-2013
201080013625.1	China P.R.	Pending	Enhanced high-speed downlink shared channel serving cell change procedures	T1.3GPP.25.212V3110-2003
10728012.5	European Patent Convention	Pending	Enhanced high-speed downlink shared channel serving cell change procedures	T1.3GPP.25.212V3110-2003
6620/CHENP/2011	India	Pending	Enhanced high-speed downlink shared channel serving cell change procedures	T1.3GPP.25.212V3110-2003
5306538	Japan	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	T1.3GPP.25.212V3110-2003
10-1398945	Republic of Korea	Granted	Enhanced high-speed downlink shared channel serving cell change procedures	T1.3GPP.25.212V3110-2003
8,855,630	United States	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
PI0908811-3	Brazil	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
2712913	Canada	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
ZL200980104398.0	China P.R.	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
201310459435.8	China P.R.	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
11103149.1	Hong Kong	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
09707609.5	European Patent Convention	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013

207105	Israel	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
4636/CHENP/2010	India	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
5372964	Japan	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
10-1177632	Republic of Korea	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
308365	Mexico	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
PI 2010003428	Malaysia	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
586885	New Zealand	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
1-2010-501649	Philippines	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
2486680	Russian Federation	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
I430638	Taiwan	Granted	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Taiwan	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
201010806	Ukraine	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
1-2010-02391	Vietnam	Pending	Enhanced multiplexing system and technique for uplink control channels	ATIS.3GPP.36.213V1070-2013
12/353,188	United States	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
2009217331	Australia	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
PI0907948-3	Brazil	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
2715926	Canada	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
200980105802.6	China P.R.	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
11107021.5	Hong Kong	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
09712256.8	European Patent Convention	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
W-00201003271	Indonesia	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
207628	Israel	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
5307/CHENP/2010	India	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
5118210	Japan	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
10-1124822	Republic of Korea	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
311811	Mexico	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
PI 2010003820	Malaysia	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
587351	New Zealand	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014

1-2010-501868	Philippines	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
2496279	Russian Federation	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
163976	Singapore	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
I393371	Taiwan	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
101019	Ukraine	Granted	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
1-2010-02529	Vietnam	Pending	Methods and apparatus for controlling transmission of a base station	ATIS.3GPP.22.220V1160-2014
12/211,897	United States	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
PI0919103-8	Brazil	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
2735895	Canada	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
ZL200980136195.X	China P.R.	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
09792574.7	European Patent Convention	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
2252/DELNP/2011	India	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
5199475	Japan	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
10-1232098	Republic of Korea	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
2481737	Russian Federation	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
I420936	Taiwan	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.133V10100-2013
12/211,897	United States	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
PI0919103-8	Brazil	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
2735895	Canada	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
ZL200980136195.X	China P.R.	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
09792574.7	European Patent Convention	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
2252/DELNP/2011	India	Pending	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
5199475	Japan	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013

10-1232098	Republic of Korea	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
2481737	Russian Federation	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
I420936	Taiwan	Granted	Methods and systems for parallel acquisition of system information from multiple base stations	ATIS.3GPP.36.331V1090-2013
12/409,963	United States	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
2009228295	Australia	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
PI0910272-8	Brazil	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
2717648	Canada	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
ZL200980110125.7	China P.R.	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
201410482946.6	China P.R.	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
11108141.8	Hong Kong	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
09725787.7	European Patent Convention	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
W-00201003683	Indonesia	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
207926	Israel	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
5426/CHENP/2010	India	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
5265755	Japan	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
10-1127705	Republic of Korea	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
305502	Mexico	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
PI 2010004068	Malaysia	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
587599	New Zealand	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
1-2010-501989	Philippines	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
2477924	Russian Federation	Granted	Method and apparatus for transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
164580	Singapore	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
I403192	Taiwan	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
98221	Ukraine	Granted	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
1-2010-02837	Vietnam	Pending	Transmission and reception of dedicated reference signals	ATIS.3GPP.36.211V1070-2013
8,179,903	United States	Granted	Providing multiple levels of service for wireless communication devices communicating with a small coverage access point	ATIS.3GPP.23.060V1150-2014
2009223056	Australia	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
2013211557	Australia	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
2013211556	Australia	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
PI0909038-0	Brazil	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
13/456,082	United States	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
2718055	Canada	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
2812038	Canada	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
200980108635.0	China P.R.	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
201310117133.2	China P.R.	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
14102061.4	Hong Kong	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014

201310116946.X	China P.R.	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
14102060.5	Hong Kong	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
11107993.9	Hong Kong	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
09720780.7	European Patent Convention	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
IDP000035295	Indonesia	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
207963	Israel	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
5736/CHENP/2010	India	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
5456703	Japan	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
10-1150562	Republic of Korea	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
301434	Mexico	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
314652	Mexico	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
MX/a/2013/006095	Mexico	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
MY-152362-A	Malaysia	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
587756	New Zealand	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
1-2010-502023	Philippines	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
2480934	Russian Federation	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
2012149951	Russian Federation	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
2012149831	Russian Federation	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
164674	Singapore	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
I393473	Taiwan	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
98218	Ukraine	Granted	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
1-2010-02727	Vietnam	Pending	Providing multiple levels of service for wireless communication	ATIS.3GPP.23.060V1150-2014
12/403,327	United States	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2009260699	Australia	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2013211555	Australia	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0909725-2	Brazil	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2718096	Canada	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2815776	Canada	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200980110286.6	China P.R.	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11108227.5	Hong Kong	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
09767152.3	European Patent Convention	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013

11159602.9	European Patent Convention	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11113305.0	Hong Kong	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
13158370.0	European Patent Convention	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11105713.2	Hong Kong	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00201003732	Indonesia	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
208016	Israel	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5618/CHENP/2010	India	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5571653	Japan	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1403967	Republic of Korea	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-2013-7004406	Republic of Korea	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
306202	Mexico	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
314625	Mexico	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI 2010004187	Malaysia	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
587757	New Zealand	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2010-502056	Philippines	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2458486	Russian Federation	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201302326-2	Singapore	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I405478	Taiwan	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
96536	Ukraine	Granted	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2010-02884	Vietnam	Pending	Dynamic assignment of ACK resource in a wireless communication system	ATIS.3GPP.36.213V1070-2013

8,780,732	United States	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
2009225669	Australia	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
PI0909190-4	Brazil	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
13/970,135	United States	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
2718945	Canada	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
201310511535.0	China P.R.	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
11103150.7	Hong Kong	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
EP2258127	European Patent Convention	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
13181914.6	European Patent Convention	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
W-00201003577	Indonesia	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
207855	Israel	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
5302/CHENP/2010	India	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
2011-500909	Japan	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
2014-184872	Japan	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
10-1196627	Republic of Korea	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
308042	Mexico	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
587487	New Zealand	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
1-2010-501931	Philippines	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
2488982	Russian Federation	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
164164	Singapore	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013

098108792	Taiwan	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
96532	Ukraine	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
1-2010-02765	Vietnam	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.36.331V1090-2013
8,780,732	United States	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
2009225669	Australia	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
PI0909190-4	Brazil	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
13/970,135	United States	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
2718945	Canada	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
201310511535.0	China P.R.	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
11103150.7	Hong Kong	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
EP2258127	European Patent Convention	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
13181914.6	European Patent Convention	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
W-00201003577	Indonesia	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
207855	Israel	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
5302/CHENP/2010	India	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
2011-500909	Japan	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
2014-184872	Japan	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
10-1196627	Republic of Korea	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
308042	Mexico	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
587487	New Zealand	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013

1-2010-501931	Philippines	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
2488982	Russian Federation	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
164164	Singapore	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
098108792	Taiwan	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
96532	Ukraine	Granted	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
1-2010-02765	Vietnam	Pending	Method of network management by assistance from terminal using control-plane signaling between terminal and network	ATIS.3GPP.37.320V1040-2013
8,711,785	United States	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
2009249506	Australia	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
PI0910273-6	Brazil	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
2717358	Canada	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
ZL200980109902.6	China P.R.	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
HK1150194	Hong Kong	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
09751046.5	European Patent Convention	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
W-00201003685	Indonesia	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
207900	Israel	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
5425/CHENP/2010	India	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
5602908	Japan	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
10-1215469	Republic of Korea	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
309872	Mexico	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
PI 2010004067	Malaysia	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
1-2010-502052	Philippines	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
2464740	Russian Federation	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
201301893-2	Singapore	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
I376168	Taiwan	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
98050	Ukraine	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
1-2010-02833	Vietnam	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.300V1090-2013
8,711,785	United States	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
2009249506	Australia	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
PI0910273-6	Brazil	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
2717358	Canada	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
ZL200980109902.6	China P.R.	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
HK1150194	Hong Kong	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
09751046.5	European Patent Convention	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
W-00201003685	Indonesia	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
207900	Israel	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013

5425/CHENP/2010	India	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
5602908	Japan	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
10-1215469	Republic of Korea	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
309872	Mexico	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
PI 2010004067	Malaysia	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
1-2010-502052	Philippines	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
2464740	Russian Federation	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
201301893-2	Singapore	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
I376168	Taiwan	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
98050	Ukraine	Granted	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
1-2010-02833	Vietnam	Pending	Fast carrier allocation in multi-carrier systems	ATIS.3GPP.36.321V1080-2013
8,711,785	United States	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
2009249506	Australia	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
PI0910273-6	Brazil	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
2717358	Canada	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
ZL200980109902.6	China P.R.	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
HK1150194	Hong Kong	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
09751046.5	European Patent Convention	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
W-00201003685	Indonesia	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
207900	Israel	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
5425/CHENP/2010	India	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
5602908	Japan	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
10-1215469	Republic of Korea	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
309872	Mexico	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
PI 2010004067	Malaysia	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
1-2010-502052	Philippines	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
2464740	Russian Federation	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
201301893-2	Singapore	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
I376168	Taiwan	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
98050	Ukraine	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
1-2010-02833	Vietnam	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.212V3110-2003
8,711,785	United States	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
2009249506	Australia	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
PI0910273-6	Brazil	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
2717358	Canada	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
ZL200980109902.6	China P.R.	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
HK1150194	Hong Kong	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
09751046.5	European Patent Convention	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
W-00201003685	Indonesia	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
207900	Israel	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
5425/CHENP/2010	India	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004

5602908	Japan	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
10-1215469	Republic of Korea	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
309872	Mexico	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
PI 2010004067	Malaysia	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
1-2010-502052	Philippines	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
2464740	Russian Federation	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
201301893-2	Singapore	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
I376168	Taiwan	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
98050	Ukraine	Granted	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
1-2010-02833	Vietnam	Pending	Fast carrier allocation in multi-carrier systems	T1.3GPP.25.214V3120-2004
8,665,804	United States	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Austria	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
2009225522	Australia	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Belgium	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
PI0909186-6	Brazil	Pending	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
2717912	Canada	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Switzerland	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
ZL200980109170.0	China P.R.	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
HK1149155	Hong Kong	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Germany	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Denmark	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	European Patent Convention	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Spain	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Finland	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	France	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Great Britain	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Greece	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Hungary	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
IDP0031720	Indonesia	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Ireland	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
207872	Israel	Pending	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
5308/CHENP/2010	India	Pending	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Italy	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
5290395	Japan	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
10-1172607	Republic of Korea	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
304552	Mexico	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
PI 2010003987	Malaysia	Pending	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Netherlands	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Norway	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
587513	New Zealand	Pending	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
1-2010-502041	Philippines	Pending	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013

EP2255587	Poland	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Portugal	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Romania	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
2449508	Russian Federation	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
EP2255587	Sweden	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
164180	Singapore	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
I404439	Taiwan	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
96099	Ukraine	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
12743	Vietnam	Granted	Filtering semi-persistent scheduling false alarms	ATIS.3GPP.36.213V1070-2013
8,792,426	United States	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2009228463	Australia	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0909231-5	Brazil	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2717175	Canada	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
200980110133.1	China P.R.	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11108142.7	Hong Kong	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
09725954.3	European Patent Convention	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00201003660	Indonesia	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
207896	Israel	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5570/CHENP/2010	India	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5518832	Japan	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-264380	Japan	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1185141	Republic of Korea	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
306742	Mexico	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 2010004180	Malaysia	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2010-502008	Philippines	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013

2451405	Russian Federation	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
164637	Singapore	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1416975	Taiwan	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
100144	Ukraine	Granted	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2010-02831	Vietnam	Pending	Method and apparatus for resource management in a wireless communication system	ATIS.3GPP.36.211V1070-2013
12/400,669	United States	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2009225466	Australia	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2013211553	Australia	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
PI0909136-0	Brazil	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2718732	Canada	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2853052	Canada	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
ZL200980109554.2	China P.R.	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
201310300354.3	China P.R.	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
14105192.9	Hong Kong	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
201410406282.5	China P.R.	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
11108225.7	Hong Kong	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
09723465.2	European Patent Convention	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
W-00201003618	Indonesia	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
208172	Israel	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
6050/CHENP/2010	India	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
5123426	Japan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
5579816	Japan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2013-206837	Japan	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2013-206838	Japan	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2013-206839	Japan	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2013-206840	Japan	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2014-092750	Japan	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
10-1258966	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
10-1255037	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
10-1280995	Republic of Korea	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
10-2013-7000076	Republic of Korea	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
10-2014-7029186	Republic of Korea	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
309873	Mexico	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
PI 2010004337	Malaysia	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
587994	New Zealand	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
1-2010-502123	Philippines	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013

1-2013-502460	Philippines	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
2473186	Russian Federation	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
164887	Singapore	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
201304865-7	Singapore	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
I439149	Taiwan	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
101833	Ukraine	Granted	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
201213986	Ukraine	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
1-2010-02798	Vietnam	Pending	Cell selection and reselection in deployments with home nodeBs	ATIS.3GPP.36.331V1090-2013
8,165,026	United States	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
2009244725	Australia	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
PI 0909522-5	Brazil	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
2717355	Canada	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
ZL200980109545.3	China P.R.	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
11108135.6	Hong Kong	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
EP2272198	Germany	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
EP2272198	European Patent Convention	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
EP2272198	Great Britain	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
W-00201003684	Indonesia	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
207898	Israel	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
5421/CHENP/2010	India	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
5373052	Japan	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
10-1182983	Republic of Korea	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
313926	Mexico	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
PI 2010004069	Malaysia	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013

1-2010-502007	Philippines	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
2442286	Russian Federation	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
164581	Singapore	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
1392391	Taiwan	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
96391	Ukraine	Granted	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
1-2010-02836	Vietnam	Pending	Method and apparatus to report and manage cells in a multi carrier system	ATIS.3GPP.36.331V1090-2013
12/407,714	United States	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2009228222	Australia	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2013213721	Australia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2013213722	Australia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2013213723	Australia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2719604	Canada	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2854961	Canada	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2854958	Canada	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
ZL200980110126.1	China P.R.	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
11112404.2	Hong Kong	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
09725327.2	European Patent Convention	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
W-00201003700	Indonesia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
208267	Israel	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
235311	Israel	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
6097/CHENP/2010	India	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2013-002497	Japan	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2013-002498	Japan	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2013-147068	Japan	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
10-1208631	Republic of Korea	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
10-1266316	Republic of Korea	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
10-1269064	Republic of Korea	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
10-1269058	Republic of Korea	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
319194	Mexico	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
PI 2010004339	Malaysia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
PI 2014002886	Malaysia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
PI 2014002884	Malaysia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
PI 2014002885	Malaysia	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
1-2010-502122	Philippines	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
1-2014-500375	Philippines	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014

1-2014-500374	Philippines	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
1-2014-500376	Philippines	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
2497311	Russian Federation	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
164893	Singapore	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
I428033	Taiwan	Granted	Method, apparatus, and computer program Product for identifying cells from which to Request wireless network access	ATIS.3GPP.22.220V1160-2014
102111449	Taiwan	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
102111450	Taiwan	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
102111451	Taiwan	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
102111454	Taiwan	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
106469	Ukraine	Granted	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
201307068	Ukraine	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
201307067	Ukraine	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
201307070	Ukraine	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
201307069	Ukraine	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
1-2010-02857	Vietnam	Pending	Device managed access point lists in wireless communications	ATIS.3GPP.22.220V1160-2014
8,477,734	United States	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Austria	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Belgium	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
PI0909233-1	Brazil	Pending	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
2717286	Canada	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Switzerland	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
ZL200980109903.0	China P.R.	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
HK1154138	Hong Kong	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Germany	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003

EP2255479	Denmark	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	European Patent Convention	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
12197651.8	European Patent Convention	Pending	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Spain	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Finland	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	France	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Great Britain	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Greece	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Hungary	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Ireland	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
5396/CHENP/2010	India	Pending	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Italy	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
5485258	Japan	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
2013-186801	Japan	Pending	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
2013-186802	Japan	Pending	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
2013-186803	Japan	Pending	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
10-1105507	Republic of Korea	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Netherlands	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Norway	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Poland	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003

EP2255479	Portugal	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Romania	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
2461132	Russian Federation	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
EP2255479	Sweden	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
164574	Singapore	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
I431969	Taiwan	Granted	Reporting of ACK and CQI information in a wireless communication system	T1.3GPP.25.212V3110-2003
12/407,161	United States	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
2009231940	Australia	Granted	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
PI0909237-4	Brazil	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
2718158	Canada	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
200980110891.3	China P.R.	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
11103791.2	Hong Kong	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
09728517.5	European Patent Convention	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
W-00201003755	Indonesia	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
208074	Israel	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
5598/CHENP/2010	India	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
2011-503060	Japan	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
2013-233561	Japan	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
10-1095162	Republic of Korea	Granted	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
308658	Mexico	Granted	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013

PI 2010004235	Malaysia	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
587755	New Zealand	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
1-2010-502025	Philippines	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
2464713	Russian Federation	Granted	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
201302334-6	Singapore	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
098110484	Taiwan	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
100409	Ukraine	Granted	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
1-2010-02931	Vietnam	Pending	Encoding and decoding of control information for wireless communication	ATIS.3GPP.36.212V1070-2013
8,493,835	United States	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2009228240	Australia	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0910411-9	Brazil	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
13/948,021	United States	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2717602	Canada	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200980110135.0	China P.R.	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201410573481.5	China P.R.	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
11108097.2	Hong Kong	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
09726198.6	European Patent Convention	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
W-00201003699	Indonesia	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
208013	Israel	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5486/CHENP/2010	India	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013

5490780	Japan	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-236329	Japan	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1124790	Republic of Korea	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
309990	Mexico	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI 2010004129	Malaysia	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
587659	New Zealand	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2010-502024	Philippines	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2463713	Russian Federation	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
164608	Singapore	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
I425798	Taiwan	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
102148443	Taiwan	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
96534	Ukraine	Granted	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1-2010-02856	Vietnam	Pending	Method and apparatus for mapping virtual resources to physical resources in a wireless communication system	ATIS.3GPP.36.211V1070-2013
8,737,517	United States	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Austria	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
2009228261	Australia	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Belgium	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
PI0910405-4	Brazil	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
14/247,305	United States	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
2718144	Canada	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013

EP2258067	Switzerland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
200980110293.6	China P.R.	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
11103848.5	Hong Kong	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Germany	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Denmark	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	European Patent Convention	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Spain	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Finland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	France	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Great Britain	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Greece	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Hungary	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
W-00201003698	Indonesia	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Ireland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
207964	Israel	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
5485/CHENP/2010	India	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Italy	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
2011-502047	Japan	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
10-1149223	Republic of Korea	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
10-1412167	Republic of Korea	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013

299783	Mexico	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
PI 2010004108	Malaysia	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Netherlands	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Norway	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
1-2010-502027	Philippines	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Poland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Portugal	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Romania	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
2452106	Russian Federation	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
EP2258067	Sweden	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
164589	Singapore	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
I434543	Taiwan	Granted	Scrambling and modulation to constrain constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
103102016	Taiwan	Pending	Scrambling and modulation to constrain constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
98051	Ukraine	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
1-2010-02858	Vietnam	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.211V1070-2013
8,737,517	United States	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Austria	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
2009228261	Australia	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Belgium	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
PI0910405-4	Brazil	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013

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EP2258067	Switzerland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
200980110293.6	China P.R.	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
11103848.5	Hong Kong	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Germany	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Denmark	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	European Patent Convention	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Spain	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Finland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	France	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Great Britain	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Greece	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Hungary	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
W-00201003698	Indonesia	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Ireland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
207964	Israel	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
5485/CHENP/2010	India	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Italy	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
2011-502047	Japan	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013

10-1149223	Republic of Korea	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
10-1412167	Republic of Korea	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
299783	Mexico	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
PI 2010004108	Malaysia	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Netherlands	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Norway	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
1-2010-502027	Philippines	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Poland	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Portugal	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Romania	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
2452106	Russian Federation	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
EP2258067	Sweden	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
164589	Singapore	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
I434543	Taiwan	Granted	Scrambling and modulation to constrain constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
103102016	Taiwan	Pending	Scrambling and modulation to constrain constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
98051	Ukraine	Granted	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
1-2010-02858	Vietnam	Pending	Scrambling and modulation to constrain the constellation size of ACK/NAK transmission on the data channel	ATIS.3GPP.36.212V1070-2013
8,699,426	United States	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2009228256	Australia	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI0910409-7	Brazil	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013

8,891,476	United States	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
200980110327.1	China P.R.	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
11103819.0	Hong Kong	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
09724497.4	European Patent Convention	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
W-00201003697	Indonesia	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
207990	Israel	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
5490/CHENP/2010	India	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
5329640	Japan	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
10-1287798	Republic of Korea	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
305930	Mexico	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
PI 2010004131	Malaysia	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
587663	New Zealand	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1-2010-502009	Philippines	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
2459365	Russian Federation	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
201301895-7	Singapore	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
I393411	Taiwan	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
100145	Ukraine	Granted	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
1-2010-02852	Vietnam	Pending	Method and apparatus for resource allocation in wireless communication systems	ATIS.3GPP.36.211V1070-2013
8,724,636	United States	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Austria	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Austria	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2009231819	Australia	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2013211552	Australia	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013

2013211554	Australia	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Belgium	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Belgium	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
PI0910104-7	Brazil	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
BR1220120235458	Brazil	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2718283	Canada	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2827965	Canada	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2827962	Canada	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Switzerland	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Switzerland	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
ZL200980110715.X	China P.R.	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
201310130879.7	China P.R.	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
201310130485.1	China P.R.	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
13111794.0	Hong Kong	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
13111793.1	Hong Kong	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
11104540.4	Hong Kong	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Germany	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Germany	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Denmark	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Denmark	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	European Patent Convention	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	European Patent Convention	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
13160670.9	European Patent Convention	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
13160676.6	European Patent Convention	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Spain	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Spain	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Finland	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Finland	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	France	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	France	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Great Britain	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Great Britain	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Greece	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Greece	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Hungary	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Hungary	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
W-00201003748	Indonesia	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
W-00201304077	Indonesia	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
W-00201304078	Indonesia	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Ireland	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Ireland	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013

208114	Israel	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
5632/CHENP/2010	India	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Italy	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Italy	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
5479452	Japan	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
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2013-134845	Japan	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
10-1237517	Republic of Korea	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
10-1299612	Republic of Korea	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
10-1386660	Republic of Korea	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
310613	Mexico	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
315032	Mexico	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
MX/a/2013/009553	Mexico	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
MX/a/2014/002132	Mexico	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
PI 2010004232	Malaysia	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Netherlands	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Netherlands	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Norway	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Norway	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
1-2010-502051	Philippines	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
1-2013-501847	Philippines	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
1-2013-501850	Philippines	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
1-2013-501848	Philippines	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
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EP2346294	Poland	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Portugal	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Portugal	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Romania	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Romania	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2473187	Russian Federation	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2498536	Russian Federation	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
2013122607	Russian Federation	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2266357	Sweden	Granted	Reliably sending control signal	ATIS.3GPP.36.212V1070-2013
EP2346294	Sweden	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
164681	Singapore	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
201305054-7	Singapore	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
201305055-4	Singapore	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
201305057-0	Singapore	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
I392386	Taiwan	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
100151	Ukraine	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
104656	Ukraine	Granted	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013

UNKNOWN	Ukraine	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
1-2010-02930	Vietnam	Pending	Methods of reliably sending control signal	ATIS.3GPP.36.212V1070-2013
8,437,752	United States	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Austria	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
2009231823	Australia	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Belgium	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
PI0910101-2	Brazil	Pending	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
2718112	Canada	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Switzerland	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
ZL200980110434.4	China P.R.	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
11104103.3	Hong Kong	Pending	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Germany	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2480021	Germany	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Denmark	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	European Patent Convention	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2480021	European Patent Convention	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Spain	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2480021	Spain	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Finland	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	France	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2480021	France	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013

EP2260657	Great Britain	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2480021	Great Britain	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Greece	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Hungary	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
IDP0033231	Indonesia	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Ireland	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
208075	Israel	Pending	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
5599/CHENP/2010	India	Pending	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Italy	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2480021	Italy	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
5579698	Japan	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
10-1183652	Republic of Korea	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
303951	Mexico	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
PI 2010004179	Malaysia	Pending	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Netherlands	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2480021	Netherlands	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Norway	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
587723	New Zealand	Pending	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Poland	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Portugal	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013

EP2260657	Romania	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
2472312	Russian Federation	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
EP2260657	Sweden	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
164660	Singapore	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
I390997	Taiwan	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
99011	Ukraine	Granted	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
1-2010-02697	Vietnam	Pending	Method and system for facilitating execution of automatic neighbor relation functions	ATIS.3GPP.36.300V1090-2013
8,396,083	United States	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
2009231822	Australia	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
PI0909238-2	Brazil	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
13/794,451	United States	Pending	Determinative segmentation, resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
201310486569.9	China P.R.	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
14107864.2	Hong Kong	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
EP2274928	Germany	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
EP2274928	European Patent Convention	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
11107523.8	Hong Kong	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
EP2274928	France	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
EP2274928	Great Britain	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
W-00201003754	Indonesia	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
208076	Israel	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013

5639/CHENP/2010	India	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
2011-503111	Japan	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
5612162	Japan	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
5607229	Japan	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
10-1177639	Republic of Korea	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
298461	Mexico	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
1-2010-502040	Philippines	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
2494574	Russian Federation	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
201302393-2	Singapore	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
1380643	Taiwan	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
101834	Ukraine	Granted	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
1-2010-02854	Vietnam	Pending	Determinative segmentation resegmentation and padding in radio link control (RLC) service data units (SDU)	ATIS.3GPP.36.212V1070-2013
12/763,962	United States	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
1054/2011	United Arab Emirates	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
2010239302	Australia	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
PI1013574-0	Brazil	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
2758562	Canada	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
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10716957.5	European Patent Convention	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
IDP000035803	Indonesia	Granted	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
215675	Israel	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
2095/MUMNP/2011	India	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
2012-507357	Japan	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
2013-246784	Japan	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
1318576	Republic of Korea	Granted	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
PI 2011004737	Malaysia	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
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2495544	Russian Federation	Granted	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
10201401520R	Singapore	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
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103117341	Taiwan	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
100815	Ukraine	Granted	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
1-2011-03146	Vietnam	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
2011/08264	South Africa	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.305V1050-2013
12/763,962	United States	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
1054/2011	United Arab Emirates	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
2010239302	Australia	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013

PI1013574-0	Brazil	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
2758562	Canada	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
201080018163.2	China P.R.	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
201410282770.X	China P.R.	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
12107812.7	Hong Kong	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
10716957.5	European Patent Convention	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
IDP000035803	Indonesia	Granted	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
215675	Israel	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
2095/MUMNP/2011	India	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
2012-507357	Japan	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
2013-246784	Japan	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
1318576	Republic of Korea	Granted	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
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1-2011-502103	Philippines	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
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103117341	Taiwan	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
100815	Ukraine	Granted	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013

1-2011-03146	Vietnam	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
2011/08264	South Africa	Pending	Method and apparatus for supporting positioning for terminals in a wireless network	ATIS.3GPP.36.355V1080-2013
8,675,537	United States	Granted	Method and apparatus for using MBSFN subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
PI0911163-8	Brazil	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
2715010	Canada	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
2862970	Canada	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
ZL200980111447.3	China P.R.	Granted	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
201410157659.8	China P.R.	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
09731261.5	European Patent Convention	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
13155017.0	European Patent Convention	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
W-00201003761	Indonesia	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
208117	Israel	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
5909/CHENP/2010	India	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
5415522	Japan	Granted	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
2013-186820	Japan	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
10-1271033	Republic of Korea	Granted	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
10-1382508	Republic of Korea	Granted	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
10-2014-7000318	Republic of Korea	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
MX/a/2010/010996	Mexico	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
587939	New Zealand	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013

1-2010-502094	Philippines	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
2476025	Russian Federation	Granted	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
2012149441	Russian Federation	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
I415410	Taiwan	Granted	Method and apparatus for using MBSFN subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
201013193	Ukraine	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
1-2010-02995	Vietnam	Pending	Using multicast broadcast single frequency network (MBSFN) subframes to send unicast information	ATIS.3GPP.36.211V1070-2013
12/419,022	United States	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
2009233881	Australia	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
PI0911058-5	Brazil	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
2718660	Canada	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
200980110939.0	China P.R.	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
11108574.4	Hong Kong	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
09730744.1	European Patent Convention	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
W-00201003760	Indonesia	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
208143	Israel	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
5912/CHENP/2010	India	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
5474932	Japan	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
2013-055007	Japan	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
10-1279417	Republic of Korea	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
307143	Mexico	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013

PI 2010004320	Malaysia	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
587964	New Zealand	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
1-2010502112	Philippines	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
2479944	Russian Federation	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
201302543-2	Singapore	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
I432042	Taiwan	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
104421	Ukraine	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
1-2010-02994	Vietnam	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.211V1070-2013
12/419,022	United States	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
2009233881	Australia	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
PI0911058-5	Brazil	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
2718660	Canada	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
200980110939.0	China P.R.	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
11108574.4	Hong Kong	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
09730744.1	European Patent Convention	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
W-00201003760	Indonesia	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
208143	Israel	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
5912/CHENP/2010	India	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
5474932	Japan	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
2013-055007	Japan	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013

10-1279417	Republic of Korea	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
307143	Mexico	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
PI 2010004320	Malaysia	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
587964	New Zealand	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
1-2010502112	Philippines	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
2479944	Russian Federation	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
201302543-2	Singapore	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
I432042	Taiwan	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
104421	Ukraine	Granted	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
1-2010-02994	Vietnam	Pending	Systems and methods to define control channels using reserved resource blocks	ATIS.3GPP.36.216V1031-2013
8,780,814	United States	Granted	Selective bearer establishment in E-UTRAN/EPS	ATIS.3GPP.36.331V1090-2013
PI0911088-7	Brazil	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
14/330,870	United States	Pending	Selective bearer establishment in E-UTRAN/EPS	ATIS.3GPP.36.331V1090-2013
2718971	Canada	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
200980112122.7	China P.R.	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
11103790.3	Hong Kong	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
09728263.6	European Patent Convention	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
208292	Israel	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
2020/MUMNP/2010	India	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
5280517	Japan	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
1299308	Republic of Korea	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013

307973	Mexico	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
587992	New Zealand	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
2464742	Russian Federation	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
I407818	Taiwan	Granted	Selective bearer establishment in E-UTRAN/EPS	ATIS.3GPP.36.331V1090-2013
201013081	Ukraine	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
1-2010-02972	Vietnam	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.331V1090-2013
8,780,814	United States	Granted	Selective bearer establishment in E-UTRAN/EPS	ATIS.3GPP.36.413V1060-2013
PI0911088-7	Brazil	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
14/330,870	United States	Pending	Selective bearer establishment in E-UTRAN/EPS	ATIS.3GPP.36.413V1060-2013
2718971	Canada	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
200980112122.7	China P.R.	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
11103790.3	Hong Kong	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
09728263.6	European Patent Convention	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
208292	Israel	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
2020/MUMNP/2010	India	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
5280517	Japan	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
1299308	Republic of Korea	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
307973	Mexico	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
587992	New Zealand	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
2464742	Russian Federation	Granted	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
I407818	Taiwan	Granted	Selective bearer establishment in E-UTRAN/EPS	ATIS.3GPP.36.413V1060-2013
201013081	Ukraine	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013

1-2010-02972	Vietnam	Pending	Selective bearer establishment in evolved universal terrestrial radio access (E-UTRA) and evolved packet system (EPS)	ATIS.3GPP.36.413V1060-2013
8,634,333	United States	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Austria	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2009244253	Australia	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Belgium	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0912525-6	Brazil	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
14/137,118	United States	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2721935	Canada	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Switzerland	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
200980116016.6	China P.R.	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
11108094.5	Hong Kong	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Germany	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Denmark	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	European Patent Convention	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Spain	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Finland	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	France	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Great Britain	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Greece	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Hungary	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
IDP0030940	Indonesia	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Ireland	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
208617	Israel	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
6648/CHENP/2010	India	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Italy	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5502855	Japan	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2014-000664	Japan	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1149640	Republic of Korea	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
312902	Mexico	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI 2010004774	Malaysia	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Netherlands	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Norway	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
588476	New Zealand	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2010-502323	Philippines	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Poland	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Portugal	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Romania	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2470467	Russian Federation	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP2294743	Sweden	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
165660	Singapore	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013

I425783	Taiwan	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
98865	Ukraine	Granted	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2010-03281	Vietnam	Pending	Bundling of ACK information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,494,065	United States	Granted	Interference reduction between OFDM carriers by frequency offset optimization	ATIS.3GPP.36.101V10100-2013
PI0914995-3	Brazil	Pending	Interference reduction between OFDM carriers by carrier spacing optimization	ATIS.3GPP.36.101V10100-2013
ZL200980121259.9	China P.R.	Granted	Interference reduction between OFDM carriers by carrier spacing optimization	ATIS.3GPP.36.101V10100-2013
09763467.9	European Patent Convention	Pending	Interference reduction between OFDM carriers by carrier spacing optimization	ATIS.3GPP.36.101V10100-2013
7445/CHENP/2010	India	Pending	Interference reduction between OFDM carriers by carrier spacing optimization	ATIS.3GPP.36.101V10100-2013
5204302	Japan	Granted	Interference reduction between OFDM carriers by carrier spacing optimization	ATIS.3GPP.36.101V10100-2013
10-1227466	Republic of Korea	Granted	Interference reduction between OFDM carriers by carrier spacing optimization	ATIS.3GPP.36.101V10100-2013
2471299	Russian Federation	Granted	Interference reduction between OFDM carriers by carrier spacing optimization	ATIS.3GPP.36.101V10100-2013
I385985	Taiwan	Granted	Interference reduction between OFDM carriers by frequency offset optimization	ATIS.3GPP.36.101V10100-2013
8,675,573	United States	Granted	Uplink resource management in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200980116007.7	China P.R.	Granted	Uplink resource management in a wireless communication system	ATIS.3GPP.36.213V1070-2013
09743467.4	European Patent Convention	Pending	Uplink resource management in a wireless communication system	ATIS.3GPP.36.213V1070-2013
6687/CHENP/2010	India	Pending	Uplink resource management in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5290404	Japan	Granted	Uplink resource management in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1148314	Republic of Korea	Granted	Uplink resource management in a wireless communication system	ATIS.3GPP.36.213V1070-2013
098114841	Taiwan	Pending	Uplink resource management in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,583,119	United States	Granted	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
PI0910887-4	Brazil	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
200980113876.4	China P.R.	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
11110783.7	Hong Kong	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
09733983.2	European Patent Convention	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
11108414.8	Hong Kong	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013

W-00201003980	Indonesia	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
W-00201303995	Indonesia	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
208435	Israel	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
6117/CHENP/2010	India	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
2011-506401	Japan	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
2013-017757	Japan	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
10-1207574	Republic of Korea	Granted	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
302455	Mexico	Granted	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
PI 1010004443	Malaysia	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
588103	New Zealand	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
1-2010-502168	Philippines	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
2463745	Russian Federation	Granted	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
165506	Singapore	Granted	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
201013721	Ukraine	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
1-2010-03110	Vietnam	Pending	Method and apparatus for management of automatic neighbor relation function in wireless networks	ATIS.3GPP.36.300V1090-2013
8,761,824	United States	Granted	Multi-carrier operation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
2009262137	Australia	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
2014202659	Australia	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
PI0914633-4	Brazil	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
2727376	Canada	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
2860308	Canada	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013

ZL200980124485.2	China P.R.	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
201310242979.9	China P.R.	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
14102746.7	Hong Kong	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
11112725.4	Hong Kong	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
14/313,780	United States	Pending	Multi-carrier operation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
09771078.4	European Patent Convention	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
11111184.0	Hong Kong	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
IDP000035197	Indonesia	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
209709	Israel	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
8048/CHENP/2010	India	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
5437367	Japan	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
2013-032453	Japan	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
2013-032454	Japan	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
2013-032455	Japan	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
10-1257408	Republic of Korea	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
10-2012-7031340	Republic of Korea	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
315151	Mexico	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
PI 2010005731	Malaysia	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
1-2010-502738	Philippines	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
2494573	Russian Federation	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
167164	Singapore	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013

I426799	Taiwan	Granted	Multi-carrier operation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
99664	Ukraine	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
103396	Ukraine	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
1-2011-00220	Vietnam	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.213V1070-2013
8,761,824	United States	Granted	Multi-carrier operation in a wireless communication network	ATIS.3GPP.36.300V1090-2013
2009262137	Australia	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
2014202659	Australia	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
PI0914633-4	Brazil	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
2727376	Canada	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
2860308	Canada	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
ZL200980124485.2	China P.R.	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
201310242979.9	China P.R.	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
14102746.7	Hong Kong	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
11112725.4	Hong Kong	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
14/313,780	United States	Pending	Multi-carrier operation in a wireless communication network	ATIS.3GPP.36.300V1090-2013
09771078.4	European Patent Convention	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
11111184.0	Hong Kong	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
IDP000035197	Indonesia	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
209709	Israel	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
8048/CHENP/2010	India	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
5437367	Japan	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
2013-032453	Japan	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013

2013-032454	Japan	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
2013-032455	Japan	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
10-1257408	Republic of Korea	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
10-2012-7031340	Republic of Korea	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
315151	Mexico	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
PI 2010005731	Malaysia	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
1-2010-502738	Philippines	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
2494573	Russian Federation	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
167164	Singapore	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
I426799	Taiwan	Granted	Multi-carrier operation in a wireless communication network	ATIS.3GPP.36.300V1090-2013
99664	Ukraine	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
103396	Ukraine	Granted	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
1-2011-00220	Vietnam	Pending	Interference mitigation by transmitting on a second, lower, power level	ATIS.3GPP.36.300V1090-2013
12/841,050	United States	Pending	Uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013
201080032736.7	China P.R.	Pending	Methods and apparatuses for uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013
10740067.3	European Patent Convention	Pending	Methods and apparatuses for uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013
435/CHENP/2012	India	Pending	Methods and apparatuses for uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013
2012-521792	Japan	Pending	Methods and apparatuses for uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013
2014-199123	Japan	Pending	Methods and apparatuses for uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013
10-1384274	Republic of Korea	Granted	Methods and apparatuses for uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013
I432067	Taiwan	Granted	Uplink control and data transmission in a mixed single and multiple carrier network	ATIS.3GPP.36.213V1070-2013

8,526,440	United States	Granted	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
PI0910554-9	Brazil	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
11106425.9	Hong Kong	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
09739608.9	European Patent Convention	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
208590	Israel	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
6593/CHENP/2010	India	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
2011-507587	Japan	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
10-1131916	Republic of Korea	Granted	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
MX/a/2010/011770	Mexico	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
PI 2010004794	Malaysia	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
588495	New Zealand	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
2010148425	Russian Federation	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
098114091	Taiwan	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
1-2010-03174	Vietnam	Pending	Partial radio link control status report	ATIS.3GPP.36.322V1000-2011
8,619,684	United States	Granted	Method and apparatus for downlink data arrival	ATIS.3GPP.36.213V1070-2013
ZL200980115638.7	China P.R.	Granted	Method and apparatus for downlink data arrival	ATIS.3GPP.36.213V1070-2013
09739995.0	European Patent Convention	Pending	Method and apparatus for downlink data arrival	ATIS.3GPP.36.213V1070-2013
6728/CHENP/2010	India	Pending	Method and apparatus for downlink data arrival	ATIS.3GPP.36.213V1070-2013
5394473	Japan	Granted	Method and apparatus for downlink data arrival	ATIS.3GPP.36.213V1070-2013
10-1166656	Republic of Korea	Granted	Method and apparatus for downlink data arrival	ATIS.3GPP.36.213V1070-2013
098114658	Taiwan	Pending	Method and apparatus for downlink data arrival	ATIS.3GPP.36.213V1070-2013
12/433,678	United States	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
2009242466	Australia	Granted	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
PI0911593-5	Brazil	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
2721525	Canada	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
200980115212.1	China P.R.	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
11106426.8	Hong Kong	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
09739996.8	European Patent Convention	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
W-00201004125	Indonesia	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
208592	Israel	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
6590/CHENP/2010	India	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
2011-507704	Japan	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
2013-249661	Japan	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
10-1292133	Republic of Korea	Granted	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
10-2013-7004967	Republic of Korea	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
311944	Mexico	Granted	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
PI 2010004775	Malaysia	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
1-2010-502375	Philippines	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
2470468	Russian Federation	Granted	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
201303368-3	Singapore	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
I406547	Taiwan	Granted	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013

102119220	Taiwan	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
96106	Ukraine	Granted	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
1-2010-03240	Vietnam	Pending	Method and apparatus for uplink ACK/NACK resource allocation	ATIS.3GPP.36.213V1070-2013
8,711,786	United States	Granted	Autonomous downlink code selection for femto cells	ATIS.3GPP.36.300V1090-2013
2009246490	Australia	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
2014200402	Australia	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
PI0912612-0	Brazil	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
2722439	Canada	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
ZL200980117160.1	China P.R.	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
201310729441.0	China P.R.	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
14108120.0	Hong Kong	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
HK1157112	Hong Kong	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
09747394.6	European Patent Convention	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
W-00201004280	Indonesia	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
208931	Israel	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
7105/CHENP/2010	India	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
5539329	Japan	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
2013-264384	Japan	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
10-1318847	Republic of Korea	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
10-1400211	Republic of Korea	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
305594	Mexico	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
PI 2010004987	Malaysia	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
1-2010-502496	Philippines	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
2472320	Russian Federation	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
201306065-2	Singapore	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
I399959	Taiwan	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
98711	Ukraine	Granted	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
1-2010-03330	Vietnam	Pending	Autonomous downlink code selection for FEMTO cells	ATIS.3GPP.36.300V1090-2013
8,687,545	United States	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
2009282177	Australia	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
PI0917495-8	Brazil	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
14/231,254	United States	Pending	AncAnchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
2731599	Canada	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
2836043	Canada	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
200980130908.1	China P.R.	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
201310616073.9	China P.R.	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
14107913.3	Hong Kong	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
11112625.5	Hong Kong	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
09791345.3	European Patent Convention	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
12162691.5	European Patent Convention	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013

W-00201100900	Indonesia	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
W-00201302352	Indonesia	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
210710	Israel	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
785/CHENP/2011	India	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
5485269	Japan	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
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10-1364147	Republic of Korea	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1364765	Republic of Korea	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
311183	Mexico	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
311810	Mexico	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
PI 2011000247	Malaysia	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2011-500132	Philippines	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
2474088	Russian Federation	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
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1434592	Taiwan	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
99383	Ukraine	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
102621	Ukraine	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
1-2011-00688	Vietnam	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.212V1070-2013
8,687,545	United States	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.213V1070-2013
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14107913.3	Hong Kong	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.213V1070-2013
11112625.5	Hong Kong	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.213V1070-2013
09791345.3	European Patent Convention	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.213V1070-2013
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785/CHENP/2011	India	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.213V1070-2013
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311183	Mexico	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.213V1070-2013
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1-2011-00688	Vietnam	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.213V1070-2013
8,687,545	United States	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
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14107913.3	Hong Kong	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
11112625.5	Hong Kong	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
09791345.3	European Patent Convention	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
12162691.5	European Patent Convention	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
W-00201100900	Indonesia	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
W-00201302352	Indonesia	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
210710	Israel	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
785/CHENP/2011	India	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
5485269	Japan	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
2013-095914	Japan	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
10-1364147	Republic of Korea	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
10-1364765	Republic of Korea	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
311183	Mexico	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
311810	Mexico	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
PI 2011000247	Malaysia	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
1-2011-500132	Philippines	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
2474088	Russian Federation	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
201306042-1	Singapore	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
I434592	Taiwan	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
99383	Ukraine	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
102621	Ukraine	Granted	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
1-2011-00688	Vietnam	Pending	Anchor carrier in a multiple carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
12/537,698	United States	Pending	Multi-carrier design for control and procedures	ATIS.3GPP.36.213V1070-2013

2009282176	Australia	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
PI0917530-0	Brazil	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
2731594	Canada	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
200980131353.2	China P.R.	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
11109043.5	Hong Kong	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
09791344.6	European Patent Convention	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
W-00201100901	Indonesia	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
210709	Israel	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
781/CHENP/2011	India	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
2014-187857	Japan	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
10-1315224	Republic of Korea	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
309340	Mexico	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
PI 2011000244	Malaysia	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
1-2011-500130	Philippines	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
2494577	Russian Federation	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
201306041-3	Singapore	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
098126995	Taiwan	Pending	Multi-carrier design for control and procedures	ATIS.3GPP.36.213V1070-2013
103048	Ukraine	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
1-2011-00683	Vietnam	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.213V1070-2013
12/537,698	United States	Pending	Multi-carrier design for control and procedures	ATIS.3GPP.36.300V1090-2013
2009282176	Australia	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013

PI0917530-0	Brazil	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
2731594	Canada	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
200980131353.2	China P.R.	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
11109043.5	Hong Kong	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
09791344.6	European Patent Convention	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
W-00201100901	Indonesia	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
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781/CHENP/2011	India	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
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309340	Mexico	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
PI 2011000244	Malaysia	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
1-2011-500130	Philippines	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
2494577	Russian Federation	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
201306041-3	Singapore	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
098126995	Taiwan	Pending	Multi-carrier design for control and procedures	ATIS.3GPP.36.300V1090-2013
103048	Ukraine	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
1-2011-00683	Vietnam	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.300V1090-2013
12/537,698	United States	Pending	Multi-carrier design for control and procedures	ATIS.3GPP.36.331V1090-2013
2009282176	Australia	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
PI0917530-0	Brazil	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013

2731594	Canada	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
200980131353.2	China P.R.	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
11109043.5	Hong Kong	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
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781/CHENP/2011	India	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
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10-1315224	Republic of Korea	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
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PI 2011000244	Malaysia	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
1-2011-500130	Philippines	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
2494577	Russian Federation	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
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103048	Ukraine	Granted	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
1-2011-00683	Vietnam	Pending	Multi-carrier design for control and procedures comprising pairing of carriers	ATIS.3GPP.36.331V1090-2013
12/537,186	United States	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Australia	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0917523-7	Brazil	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
2731621	Canada	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
200980131349.6	China P.R.	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
11109776.8	Hong Kong	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
09791343.8	European Patent Convention	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Israel	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013

779/CHENP/2011	India	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
5269996	Japan	Granted	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-098239	Japan	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
10-2011-7005855	Republic of Korea	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
10-2013-7022801	Republic of Korea	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
590540	New Zealand	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
2485703	Russian Federation	Granted	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
I424730	Taiwan	Granted	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
12/537,186	United States	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
UNKNOWN	Australia	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
PI0917523-7	Brazil	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
2731621	Canada	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
200980131349.6	China P.R.	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
11109776.8	Hong Kong	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
09791343.8	European Patent Convention	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
UNKNOWN	Israel	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
779/CHENP/2011	India	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
5269996	Japan	Granted	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
2013-098239	Japan	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
10-2011-7005855	Republic of Korea	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
10-2013-7022801	Republic of Korea	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
590540	New Zealand	Pending	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
2485703	Russian Federation	Granted	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
I424730	Taiwan	Granted	Downlink grants in a multicarrier wireless communication system	ATIS.3GPP.36.306V1090-2013
8,670,376	United States	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
2009282050	Australia	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
PI0917671-3	Brazil	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
14/201,773	United States	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
2731604	Canada	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
2829721	Canada	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
ZL200980131204.6	China P.R.	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
201410066609.9	China P.R.	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
14111189.2	Hong Kong	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
11112617.5	Hong Kong	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
09791434.5	European Patent Convention	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
11167776.1	European Patent Convention	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
W-00201100902	Indonesia	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
210748	Israel	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
1251/CHENP/2011	India	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
5231646	Japan	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
2013-002502	Japan	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013

5575945	Japan	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
10-1415042	Republic of Korea	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
10-2012-7032683	Republic of Korea	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
10-2014-7011098	Republic of Korea	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
308493	Mexico	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
321089	Mexico	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
320911	Mexico	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
PI 2011000282	Malaysia	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
1-2011-500201	Philippines	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
2503133	Russian Federation	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
168329	Singapore	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
I436671	Taiwan	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
98064	Ukraine	Granted	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
201110222	Ukraine	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
1-2011-00687	Vietnam	Pending	Multi-carrier grant design	ATIS.3GPP.36.213V1070-2013
8,670,376	United States	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
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14/201,773	United States	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
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11112617.5	Hong Kong	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
09791434.5	European Patent Convention	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
11167776.1	European Patent Convention	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
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210748	Israel	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
1251/CHENP/2011	India	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
5231646	Japan	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
2013-002502	Japan	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
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10-2012-7032683	Republic of Korea	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
10-2014-7011098	Republic of Korea	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
308493	Mexico	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
321089	Mexico	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
320911	Mexico	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
PI 2011000282	Malaysia	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
1-2011-500201	Philippines	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013

2503133	Russian Federation	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
168329	Singapore	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
I436671	Taiwan	Granted	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
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1-2011-00687	Vietnam	Pending	Multi-carrier grant design	ATIS.3GPP.36.300V1090-2013
12/480,074	United States	Pending	Method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
2009257561	Australia	Granted	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
PI0914965-1	Brazil	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
2725671	Canada	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
200980121400.5	China P.R.	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
11107670.9	Hong Kong	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
09763468.7	European Patent Convention	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
W-00201100068	Indonesia	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
209358	Israel	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
7442/CHENP/2010	India	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
2013-186794	Japan	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
10-1291084	Republic of Korea	Granted	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
310125	Mexico	Granted	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
PI 2010005315	Malaysia	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
1-2010-502563	Philippines	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
2480955	Russian Federation	Granted	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
166481	Singapore	Granted	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
I444067	Taiwan	Granted	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014

101199	Ukraine	Granted	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
1-2010-03538	Vietnam	Pending	A method and apparatus for PCC enhancement for flow based mobility	ATIS.3GPP.23.261V1100-2014
12/269,676	United States	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Austria	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
2008322522	Australia	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
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EP2235982	Belgium	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
PI 0819810-1	Brazil	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
2705860	Canada	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
2822520	Canada	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
2860309	Canada	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Switzerland	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
ZL200880124832.7	China P.R.	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
201310552280.2	China P.R.	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
14108097.9	Hong Kong	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
11105673.0	Hong Kong	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Germany	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Denmark	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	European Patent Convention	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
12166666.3	European Patent Convention	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
12191615.9	European Patent Convention	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Spain	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Finland	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	France	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Great Britain	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Greece	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Hungary	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
W-00201002014	Indonesia	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
W-00201300081	Indonesia	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Ireland	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
205783	Israel	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
2990/CHENP/2010	India	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Italy	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
5341100	Japan	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
10-1204492	Republic of Korea	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
10-1291095	Republic of Korea	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
310023	Mexico	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
317759	Mexico	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013

MX/a/2014/001253	Mexico	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
PI 2010002262	Malaysia	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Netherlands	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Norway	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
1-2010-501115	Philippines	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Poland	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Portugal	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Romania	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
2481735	Russian Federation	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
2528422	Russian Federation	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
EP2235982	Sweden	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
161558	Singapore	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
I394476	Taiwan	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
100870	Ukraine	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
201202212	Ukraine	Granted	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
1-2010-01532	Vietnam	Pending	Using identifiers to establish communication	ATIS.3GPP.36.331V1090-2013
8,626,162	United States	Granted	Registration and access control in femto cell deployments	ATIS.3GPP.36.304V1060-2013
2009255969	Australia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
2013231095	Australia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
PI0915648-8	Brazil	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
14/096,643	United States	Pending	Registration and access control in femto cell deployments	ATIS.3GPP.36.304V1060-2013
2725459	Canada	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
ZL200980120743.X	China P.R.	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
201310571793.8	China P.R.	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
14107911.5	Hong Kong	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
11112134.9	Hong Kong	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2314105	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2378811	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2314105	European Patent Convention	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2378811	European Patent Convention	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
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EP2314105	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2378811	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2314105	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2378811	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
W-00201100051	Indonesia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
209534	Israel	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
7658/CheNP/2010	India	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2314105	Italy	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2378811	Italy	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013

5579708	Japan	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
10-1216364	Republic of Korea	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
308291	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
316582	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
PI 2010005513	Malaysia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
EP2378811	Netherlands	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
1-2010-502698	Philippines	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
2486704	Russian Federation	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
2012147265	Russian Federation	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
166604	Singapore	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
098118937	Taiwan	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
100425	Ukraine	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.304V1060-2013
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8,626,162	United States	Granted	Registration and access control in femto cell deployments	ATIS.3GPP.36.331V1090-2013
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PI0915648-8	Brazil	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
14/096,643	United States	Pending	Registration and access control in femto cell deployments	ATIS.3GPP.36.331V1090-2013
2725459	Canada	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
ZL200980120743.X	China P.R.	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
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14107911.5	Hong Kong	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
11112134.9	Hong Kong	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2314105	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2378811	Germany	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
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EP2378811	European Patent Convention	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2314105	Spain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2378811	Spain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2314105	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2378811	France	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2314105	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2378811	Great Britain	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
W-00201100051	Indonesia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
209534	Israel	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
7658/CheNP/2010	India	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2314105	Italy	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
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308291	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013

316582	Mexico	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
PI 2010005513	Malaysia	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
EP2378811	Netherlands	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
1-2010-502698	Philippines	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
2486704	Russian Federation	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
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166604	Singapore	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
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100425	Ukraine	Granted	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
1-2010-03539	Vietnam	Pending	Registration and access control in FEMTO cell deployments	ATIS.3GPP.36.331V1090-2013
8,804,546	United States	Granted	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
PI0915088-9	Brazil	Pending	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
14/457,012	United States	Pending	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
2725979	Canada	Pending	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
ZL200980121927.8	China P.R.	Granted	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
201310271962.6	China P.R.	Pending	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
201410539419.4	China P.R.	Pending	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
09763655.9	European Patent Convention	Pending	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
7581/CheNP/2010	India	Pending	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
5313341	Japan	Granted	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
10-1247211	Republic of Korea	Granted	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
2518221	Russian Federation	Granted	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
I410158	Taiwan	Granted	Method and apparatus for managing interaction between DRX cycles and paging cycles	ATIS.3GPP.36.331V1090-2013
12/352,501	United States	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
2009205545	Australia	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014

PI0907118-0	Brazil	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
200980102167.6	China P.R.	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
11103811.8	Hong Kong	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
09702782.5	European Patent Convention	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
W-00201002783	Indonesia	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
206375	Israel	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
3716/CHENP/2010	India	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
2010-543195	Japan	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
2014-077090	Japan	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
10-1238789	Republic of Korea	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
10-1442036	Republic of Korea	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
312196	Mexico	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
1-2010-501476	Philippines	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
2474084	Russian Federation	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
201004485-7	Singapore	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
201300162-3	Singapore	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
098101154	Taiwan	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
97726	Ukraine	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
1-2010-02111	Vietnam	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.23.060V1150-2014
12/352,501	United States	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013

2009205545	Australia	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
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200980102167.6	China P.R.	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
11103811.8	Hong Kong	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
09702782.5	European Patent Convention	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
W-00201002783	Indonesia	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
206375	Israel	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
3716/CHENP/2010	India	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
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10-1238789	Republic of Korea	Granted	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
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1-2010-02111	Vietnam	Pending	Wireless communication paging utilizing multiple types of node identifiers	ATIS.3GPP.36.413V1060-2013
8,880,111	United States	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013

2009273858	Australia	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
PI0916788-9	Brazil	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
2730289	Canada	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
200980128860.0	China P.R.	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
201410245813.7	China P.R.	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
11113753.7	Hong Kong	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
8,838,122	United States	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
13/526,762	United States	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
EP2308256	Germany	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
EP2308256	European Patent Convention	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
12174302.5	European Patent Convention	Pending	Base-station initiated interference report	ATIS.3GPP.36.300V1090-2013
EP2308256	Spain	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
EP2308256	France	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
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IDP0033345	Indonesia	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
210275	Israel	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
231916	Israel	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
231917	Israel	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
231918	Israel	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
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EP2308256	Italy	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
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299214	Mexico	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
PI 2010006140	Malaysia	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
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I422259	Taiwan	Granted	System and method for network management	ATIS.3GPP.36.300V1090-2013
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1-2011-00517	Vietnam	Pending	System and method for network management	ATIS.3GPP.36.300V1090-2013
12/487,575	United States	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Austria	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
2009271264	Australia	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Belgium	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013

PI0914574-5	Brazil	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
2728910	Canada	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Switzerland	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
200980123635.8	China P.R.	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
11112407.9	Hong Kong	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Germany	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Denmark	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	European Patent Convention	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Spain	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Finland	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	France	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Great Britain	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Greece	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Hungary	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
W-00201100265	Indonesia	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Ireland	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
210112	Israel	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
8527/CHENP/2010	India	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Italy	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
2011-516540	Japan	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013

2014-018789	Japan	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
10-1178359	Republic of Korea	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
301349	Mexico	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
PI 2010006099	Malaysia	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Netherlands	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Norway	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
1-2010-502941	Philippines	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Poland	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Portugal	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
EP2298017	Romania	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
2476022	Russian Federation	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
EP2298017	Sweden	Granted	Method, apparatus and computer program product for paging access points	ATIS.3GPP.36.300V1090-2013
167536	Singapore	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
I406585	Taiwan	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
100748	Ukraine	Granted	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
1-2011-00224	Vietnam	Pending	Concentrator for multiplexing access point to wireless network connections	ATIS.3GPP.36.300V1090-2013
8,340,605	United States	Granted	Coordinated transmissions between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
PI0917268-8	Brazil	Pending	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
2731098	Canada	Granted	Coordinated transmissions between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
ZL200980130040.5	China P.R.	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013

201310571964.7	China P.R.	Pending	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
EP2327168	Germany	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
EP2327168	European Patent Convention	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
EP2327168	Spain	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
EP2327168	France	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
EP2327168	Great Britain	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
323/CHENP/2011	India	Pending	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
EP2327168	Italy	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
5474968	Japan	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
10-1246140	Republic of Korea	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
EP2327168	Netherlands	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
2479129	Russian Federation	Granted	Coordinated transmission between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
I401902	Taiwan	Granted	Coordinated transmissions between cells of a base station in a wireless communications system	ATIS.3GPP.36.211V1070-2013
12/535,972	United States	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
PI0917524-5	Brazil	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
2732451	Canada	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
200980130828.6	China P.R.	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
201410508475.1	China P.R.	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
09749224.3	European Patent Convention	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
552/CHENP/2011	India	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003

5619742	Japan	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
10-1272133	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
10-1333219	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
10-1271568	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
10-1271570	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
2490796	Russian Federation	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
098126766	Taiwan	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.212V3110-2003
12/535,972	United States	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
PI0917524-5	Brazil	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
2732451	Canada	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
200980130828.6	China P.R.	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
201410508475.1	China P.R.	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
09749224.3	European Patent Convention	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
552/CHENP/2011	India	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
5619742	Japan	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1272133	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1333219	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1271568	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1271570	Republic of Korea	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
2490796	Russian Federation	Granted	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004

098126766	Taiwan	Pending	Method and apparatus for supporting distributed MIMO in a wireless communication system	T1.3GPP.25.214V3120-2004
8,184,599	United States	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Austria	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
2009271334	Australia	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
2014200395	Australia	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Belgium	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
PI0914241-0	Brazil	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
2726323	Canada	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Switzerland	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
200980123977.X	China P.R.	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
201310196962.4	China P.R.	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
13111790.4	Hong Kong	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
11107736.1	Hong Kong	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2301297	Germany	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Germany	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Denmark	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2301297	European Patent Convention	Granted	Management of user operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	European Patent Convention	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2301297	Spain	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Spain	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013

EP2360985	Finland	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2301297	France	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	France	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2301297	Great Britain	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Great Britain	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Greece	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Hungary	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
IDP0032740	Indonesia	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Ireland	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
209531	Israel	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
7654/CheNP/2010	India	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2301297	Italy	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
EP2360985	Italy	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
5551159	Japan	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
5290462	Japan	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
10-1230358	Republic of Korea	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
296830	Mexico	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
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EP2360985	Norway	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
589453	New Zealand	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
1-2010-502711	Philippines	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
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EP2360985	Romania	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
2452138	Russian Federation	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
2490830	Russian Federation	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
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167045	Singapore	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
I430694	Taiwan	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
101145512	Taiwan	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
103102371	Taiwan	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
100572	Ukraine	Granted	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
1-2011-00216	Vietnam	Pending	Management of UE operation in a multi-carrier communication system	ATIS.3GPP.36.321V1080-2013
8,184,599	United States	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Austria	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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2726323	Canada	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Switzerland	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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201310196962.4	China P.R.	Pending	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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EP2360985	Germany	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Denmark	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2301297	European Patent Convention	Granted	Management of user operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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EP2301297	Spain	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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EP2360985	Finland	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2301297	France	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	France	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2301297	Great Britain	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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EP2360985	Greece	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004

EP2360985	Hungary	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
IDP0032740	Indonesia	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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7654/CheNP/2010	India	Pending	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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EP2360985	Italy	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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5290462	Japan	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
10-1230358	Republic of Korea	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
296830	Mexico	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
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EP2301297	Netherlands	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Netherlands	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Norway	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
589453	New Zealand	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
1-2010-502711	Philippines	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Poland	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Portugal	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Romania	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004

2452138	Russian Federation	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
2490830	Russian Federation	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP2360985	Sweden	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
167045	Singapore	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
I430694	Taiwan	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
101145512	Taiwan	Pending	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
103102371	Taiwan	Pending	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
100572	Ukraine	Granted	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
1-2011-00216	Vietnam	Pending	Management of UE operation in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
8,494,572	United States	Granted	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
2009271267	Australia	Granted	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
PI0914568-0	Brazil	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
13/946,802	United States	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
2726524	Canada	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
200980124642.X	China P.R.	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
11110015.7	Hong Kong	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
09789912.4	European Patent Convention	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
11109913.2	Hong Kong	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
W-00201004491	Indonesia	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
209600	Israel	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013

2550/MUMNP/2010	India	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
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2013-197628	Japan	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
2014-210908	Japan	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
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PI 2010005657	Malaysia	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
PI 2014002442	Malaysia	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
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2474081	Russian Federation	Granted	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
167080	Singapore	Granted	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.213V1070-2013
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8,494,572	United States	Granted	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.321V1080-2013

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13/946,802	United States	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.321V1080-2013
2726524	Canada	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.321V1080-2013
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2011-516542	Japan	Pending	Method and apparatus for power control of first data transmission in random access procedure of FDMA communication system	ATIS.3GPP.36.321V1080-2013
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12/499,432	United States	Pending	Synchronous TDM-based communication in dominant interference scenarios	ATIS.3GPP.36.216V1031-2013
EP2308264	Austria	Granted	Synchronous TDM-based communication in dominant interference scenarios	ATIS.3GPP.36.216V1031-2013
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11113201.5	Hong Kong	Pending	Synchronous TDM-based communication in dominant interference scenarios	ATIS.3GPP.36.216V1031-2013
13/888,292	United States	Pending	Synchronous TDM-based communication in dominant interference scenarios	ATIS.3GPP.36.216V1031-2013
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11113654.7	Hong Kong	Pending	Enabling communications in the presence of dominant interferer	ATIS.3GPP.36.216V1031-2013
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14/077,783	United States	Pending	Method and apparatus for handling measurement gaps in wireless networks	ATIS.3GPP.36.321V1080-2013
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098126762	Taiwan	Pending	Method and apparatus for handling measurement gaps in wireless networks	ATIS.3GPP.36.321V1080-2013
12/500,548	United States	Pending	Method and apparatus for initiating random access procedure in wireless networks	ATIS.3GPP.36.321V1080-2013
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316/CHENP/2011	India	Pending	Method and apparatus for initiating random access procedure in wireless networks	ATIS.3GPP.36.321V1080-2013
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10-1241281	Republic of Korea	Granted	Method and apparatus for initiating random access procedure in wireless networks	ATIS.3GPP.36.321V1080-2013
2455791	Russian Federation	Granted	Method and apparatus for initiating random access procedure in wireless networks	ATIS.3GPP.36.321V1080-2013
I451794	Taiwan	Granted	Method and apparatus for initiating random access procedure in wireless networks	ATIS.3GPP.36.321V1080-2013
12/502,098	United States	Pending	Wireless communication systems with femto nodes	ATIS.3GPP.36.300V1090-2013
PI0916451-0	Brazil	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.300V1090-2013
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319/CHENP/2011	India	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.300V1090-2013
5108150	Japan	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.300V1090-2013
10-1259904	Republic of Korea	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.300V1090-2013
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590300	New Zealand	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.300V1090-2013
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098123783	Taiwan	Pending	Method, appartus, and computer program product for communicating between an access terminal and a femto node	ATIS.3GPP.36.300V1090-2013
101674	Ukraine	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.300V1090-2013
1-2011-00402	Vietnam	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.300V1090-2013
12/502,098	United States	Pending	Wireless communication systems with femto nodes	ATIS.3GPP.36.331V1090-2013
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201410050881.8	China P.R.	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
11113202.4	Hong Kong	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
09790413.0	European Patent Convention	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
W-00201100570	Indonesia	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
210468	Israel	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
319/CHENP/2011	India	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013

5108150	Japan	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
10-1259904	Republic of Korea	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
MX/a/2011/000553	Mexico	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
590300	New Zealand	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
2011105431	Russian Federation	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
098123783	Taiwan	Pending	Method, apparatus, and computer program product for communicating between an access terminal and a femto node	ATIS.3GPP.36.331V1090-2013
101674	Ukraine	Granted	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
1-2011-00402	Vietnam	Pending	Method of communicating between an access terminal and a femto node, wireless communication apparatus, and computer program product	ATIS.3GPP.36.331V1090-2013
8,786,491	United States	Granted	Methods and apparatuses for requesting /providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
PI0916707-2	Brazil	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
2730155	Canada	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
200980126131.1	China P.R.	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
14/308,251	United States	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
09789715.1	European Patent Convention	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013

2784/MUMNP/2010	India	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
2011-518753	Japan	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
2014-231810	Japan	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
2011-7003735	Republic of Korea	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
2012-7025004	Republic of Korea	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
2475775	Russian Federation	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
201307619-5	Singapore	Pending	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
I411807	Taiwan	Granted	Methods and apparatuses for requesting/providing assistance data associated with various satellite positioning systems in wireless communication networks	ATIS.3GPP.36.355V1080-2013
12/780,774	United States	Pending	Dedicated reference signal	ATIS.3GPP.36.211V1070-2013
8,391,158	United States	Granted	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
2013204614	Australia	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
PI0916789-7	Brazil	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
200980128839.0	China P.R.	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
11113752.8	Hong Kong	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
09790823.0	European Patent Convention	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
W-00201100714	Indonesia	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
210276	Israel	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
8640/CHENP/2010	India	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
2011-520240	Japan	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
2013-009822	Japan	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
10-1212071	Republic of Korea	Granted	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
MX/a/2011/000639	Mexico	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
PI 2010006139	Malaysia	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
2480961	Russian Federation	Granted	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
167957	Singapore	Granted	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013

96720	Ukraine	Granted	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
1-2011-00518	Vietnam	Pending	Cell identifier assignment and selection	ATIS.3GPP.36.300V1090-2013
8,588,150	United States	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
2009279478	Australia	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
PI0917261-0	Brazil	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
2731640	Canada	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
200980130800.2	China P.R.	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
11110294.9	Hong Kong	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
09743979.8	European Patent Convention	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
W-00201100846	Indonesia	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
210706	Israel	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
783/CHENP/2011	India	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
5461555	Japan	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
10-1432757	Republic of Korea	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
307208	Mexico	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
315588	Mexico	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
PI 2011000246	Malaysia	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
590537	New Zealand	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
1-2011-500155	Philippines	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
2011108313	Russian Federation	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
201306040-5	Singapore	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
I392245	Taiwan	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
102101524	Taiwan	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
96901	Ukraine	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
1-2011-00614	Vietnam	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.211V1070-2013
8,588,150	United States	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
2009279478	Australia	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
PI0917261-0	Brazil	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
2731640	Canada	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
200980130800.2	China P.R.	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
11110294.9	Hong Kong	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
09743979.8	European Patent Convention	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
W-00201100846	Indonesia	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
210706	Israel	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
783/CHENP/2011	India	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
5461555	Japan	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
10-1432757	Republic of Korea	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
307208	Mexico	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
315588	Mexico	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
PI 2011000246	Malaysia	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
590537	New Zealand	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013

1-2011-500155	Philippines	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
2011108313	Russian Federation	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
201306040-5	Singapore	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
I392245	Taiwan	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
102101524	Taiwan	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
96901	Ukraine	Granted	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
1-2011-00614	Vietnam	Pending	RNTI-dependent scrambling sequence initialization	ATIS.3GPP.36.213V1070-2013
8,588,773	United States	Granted	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
ZL200980130156.9	China P.R.	Granted	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
201310316397.0	China P.R.	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
09791151.5	European Patent Convention	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
11166834.9	European Patent Convention	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
526/CHENP/2011	India	Pending	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
5209789	Japan	Granted	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
10-1312460	Republic of Korea	Granted	System and method for cell search and selection in a wireless communication system	ATIS.3GPP.36.304V1060-2013
12/642,535	United States	Pending	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
201080057497.0	China P.R.	Pending	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
10708013.7	European Patent Convention	Pending	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
5112/CHENP/2012	India	Pending	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
5596171	Japan	Granted	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
2014-085617	Japan	Pending	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
10-1428691	Republic of Korea	Granted	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
I439164	Taiwan	Granted	Wireless communication channel blanking	ATIS.3GPP.36.331V1090-2013
12/536,721	United States	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
PI0917431-1	Brazil	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
2731988	Canada	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
200980130859.1	China P.R.	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
09791314.9	European Patent Convention	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
1044/CHENP/2011	India	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
2011-522293	Japan	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
2014-000318	Japan	Granted	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
2014-225554	Japan	Pending	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
10-1299186	Republic of Korea	Granted	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011

2484592	Russian Federation	Granted	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
1455516	Taiwan	Granted	Processing polling requests from radio link control peers	ATIS.3GPP.36.322V1000-2011
8,285,285	United States	Granted	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.304V1060-2013
200980129861.7	China P.R.	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.304V1060-2013
09789589.0	European Patent Convention	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.304V1060-2013
525/CHENP/2011	India	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.304V1060-2013
2011-522074	Japan	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.304V1060-2013
10-1331500	Republic of Korea	Granted	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.304V1060-2013
8,285,285	United States	Granted	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.331V1090-2013
200980129861.7	China P.R.	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.331V1090-2013
09789589.0	European Patent Convention	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.331V1090-2013
525/CHENP/2011	India	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.331V1090-2013
2011-522074	Japan	Pending	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.331V1090-2013
10-1331500	Republic of Korea	Granted	Intra-frequency cell reselection restriction in wireless communications	ATIS.3GPP.36.331V1090-2013
12/501,219	United States	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
2009279494	Australia	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
PI0916909-1	Brazil	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
2731514	Canada	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
200980130679.3	China P.R.	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
201410562046.2	China P.R.	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
12100924.7	Hong Kong	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
09791302.4	European Patent Convention	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
W-00201100862	Indonesia	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
210662	Israel	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
378/CHENP/2011	India	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
2011-522283	Japan	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
2013-186813	Japan	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
10-1238826	Republic of Korea	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
308475	Mexico	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013

PI 2011000167	Malaysia	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
590441	New Zealand	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
1-2011-500114	Philippines	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
2475974	Russian Federation	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
168223	Singapore	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
I395426	Taiwan	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
97069	Ukraine	Granted	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
1-2011-00613	Vietnam	Pending	Utilizing HARQ for uplink grants received in wireless communications	ATIS.3GPP.36.321V1080-2013
8,873,522	United States	Granted	Processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2009282091	Australia	Granted	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2013273799	Australia	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2013273805	Australia	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2013273804	Australia	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2013273800	Australia	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0917526-1	Brazil	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2735580	Canada	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
200980136010.5	China P.R.	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
11111085.0	Hong Kong	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
09791397.4	European Patent Convention	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
IDP000035240	Indonesia	Granted	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
211055	Israel	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
969/CHENP/2011	India	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5237453	Japan	Granted	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2013-015835	Japan	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2014-096214	Japan	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013

10-1275699	Republic of Korea	Granted	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
310339	Mexico	Granted	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI 2011000566	Malaysia	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2011-500296	Philippines	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2479945	Russian Federation	Granted	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
201305859-9	Singapore	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
I446803	Taiwan	Granted	Processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
100439	Ukraine	Granted	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2011-00652	Vietnam	Pending	Methods and apparatuses for processing measurement gaps in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2009282084	Australia	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
PI0918026-5	Brazil	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
11111034.2	Hong Kong	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
09791392.5	European Patent Convention	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
W-00201100904	Indonesia	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
210528	Israel	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
327/CHENP/2011	India	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
5155451	Japan	Granted	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
10-1207550	Republic of Korea	Granted	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
309989	Mexico	Granted	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
PI 2011000140	Malaysia	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
590380	New Zealand	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013

1-2011-500131	Philippines	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
2466501	Russian Federation	Granted	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
201305856-5	Singapore	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
I436670	Taiwan	Granted	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
101211	Ukraine	Granted	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
1-2011-00653	Vietnam	Pending	Systems, methods and apparatus for facilitating buffer status report robustness	ATIS.3GPP.36.321V1080-2013
12/486,650	United States	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
2009259875	Australia	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
PI0915318-7	Brazil	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
2726100	Canada	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
200980123026.2	China P.R.	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
11112409.7	Hong Kong	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
09767881.7	European Patent Convention	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
UNKNOWN	Indonesia	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
209564	Israel	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
7627/CHENP/2010	India	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
5323930	Japan	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
10-1238805	Republic of Korea	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
304616	Mexico	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
MX/a/2012/001880	Mexico	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013

PI 2010005490	Malaysia	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
1-2010-502649	Philippines	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
2470463	Russian Federation	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
201304702-2	Singapore	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
1432049	Taiwan	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
100277	Ukraine	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
1-2011-00181	Vietnam	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.300V1090-2013
12/486,650	United States	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
2009259875	Australia	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
PI0915318-7	Brazil	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
2726100	Canada	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
200980123026.2	China P.R.	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
11112409.7	Hong Kong	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
09767881.7	European Patent Convention	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
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209564	Israel	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
7627/CHENP/2010	India	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
5323930	Japan	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
10-1238805	Republic of Korea	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
304616	Mexico	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013

MX/a/2012/001880	Mexico	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
PI 2010005490	Malaysia	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
1-2010-502649	Philippines	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
2470463	Russian Federation	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
201304702-2	Singapore	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
I432049	Taiwan	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
100277	Ukraine	Granted	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
1-2011-00181	Vietnam	Pending	Access terminal assisted node identifier confusion resolution using a time gap	ATIS.3GPP.36.331V1090-2013
12/486,658	United States	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
PI0915316-0	Brazil	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
200980123015.4	China P.R.	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
201310204032.9	China P.R.	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
14102745.8	Hong Kong	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
201310204176.4	China P.R.	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
14102063.2	Hong Kong	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
09767884.1	European Patent Convention	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
W-00201100239	Indonesia	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
209563	Israel	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
7626/CHENP/2010	India	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
5562950	Japan	Granted	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
5539481	Japan	Granted	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
10-1238393	Republic of Korea	Granted	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
10-2012-7019374	Republic of Korea	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
MX/a/2010/014183	Mexico	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
PI 2010005491	Malaysia	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
1-2011-00182	Vietnam	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.304V1060-2013
12/486,658	United States	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
PI0915316-0	Brazil	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
200980123015.4	China P.R.	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
201310204032.9	China P.R.	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
14102745.8	Hong Kong	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
201310204176.4	China P.R.	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
14102063.2	Hong Kong	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013

09767884.1	European Patent Convention	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
W-00201100239	Indonesia	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
209563	Israel	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
7626/CHENP/2010	India	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
5562950	Japan	Granted	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
5539481	Japan	Granted	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
10-1238393	Republic of Korea	Granted	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
10-2012-7019374	Republic of Korea	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
MX/a/2010/014183	Mexico	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
PI 2010005491	Malaysia	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
1-2011-00182	Vietnam	Pending	Access terminal assisted node identifier confusion resolution	ATIS.3GPP.36.331V1090-2013
8,780,816	United States	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Austria	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
2009282047	Australia	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Belgium	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
PI0917670-5	Brazil	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
13/774,151	United States	Pending	Method and apparatus for handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
2731864	Canada	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Switzerland	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
200980131491.0	China P.R.	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
11110957.7	Hong Kong	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Germany	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Denmark	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	European Patent Convention	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Spain	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Finland	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	France	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Great Britain	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Greece	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Hungary	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
IDP000035080	Indonesia	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Ireland	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
210790	Israel	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
661/CHENP/2011	India	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Italy	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
5341192	Japan	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
10-1234140	Republic of Korea	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
307749	Mexico	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
PI 2011000331	Malaysia	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Netherlands	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013

EP2332384	Norway	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
1-2011-500180	Philippines	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Poland	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Portugal	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Romania	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
2465745	Russian Federation	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
EP2332384	Sweden	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
168325	Singapore	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
I416978	Taiwan	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
101049	Ukraine	Granted	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
1-2011-00684	Vietnam	Pending	Handling uplink grant in random access response	ATIS.3GPP.36.213V1070-2013
12/541,841	United States	Pending	Control plane location solution to support wireless access	ATIS.3GPP.36.305V1050-2013
2732136	Canada	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
09791597.9	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
14159475.4	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
14159468.9	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
14159456.4	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
5215470	Japan	Granted	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
5479622	Japan	Granted	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
2013-106366	Japan	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
5479623	Japan	Granted	Control plane solution for location service to support wireless access	ATIS.3GPP.36.305V1050-2013
I398181	Taiwan	Granted	Method, apparatus, and computer program product for Supporting location services and positioning	ATIS.3GPP.36.305V1050-2013
12/541,841	United States	Pending	Control plane location solution to support wireless access	ATIS.3GPP.36.331V1090-2013
2732136	Canada	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
09791597.9	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
14159475.4	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
14159468.9	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
14159456.4	European Patent Convention	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
5215470	Japan	Granted	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
5479622	Japan	Granted	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
2013-106366	Japan	Pending	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
5479623	Japan	Granted	Control plane solution for location service to support wireless access	ATIS.3GPP.36.331V1090-2013
I398181	Taiwan	Granted	Method, apparatus, and computer program product for Supporting location services and positioning	ATIS.3GPP.36.331V1090-2013
8,611,941	United States	Granted	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
PI0917337-4	Brazil	Pending	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
2731618	Canada	Pending	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004

200980131998.6	China P.R.	Pending	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
09791592.0	European Patent Convention	Pending	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
UNKNOWN	Israel	Pending	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
546/CHENP/2011	India	Pending	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
5378521	Japan	Granted	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
10-1149211	Republic of Korea	Granted	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
UNKNOWN	Malaysia	Pending	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
2475959	Russian Federation	Granted	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
I415496	Taiwan	Granted	System and method for processing power control commands in a wireless communication system	T1.3GPP.25.214V3120-2004
8,855,138	United States	Granted	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
PI0917689-6	Brazil	Pending	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
200980132739.5	China P.R.	Pending	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
201310269041.6	China P.R.	Pending	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
09791910.4	European Patent Convention	Pending	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
963/CHENP/2011	India	Pending	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
5502870	Japan	Granted	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
2014-052201	Japan	Pending	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
10-1237360	Republic of Korea	Granted	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
2491779	Russian Federation	Granted	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
2510898	Russian Federation	Granted	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
102120391	Taiwan	Pending	Relay architecture framework	ATIS.3GPP.23.401V1150-2014
8,855,138	United States	Granted	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
PI0917689-6	Brazil	Pending	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
200980132739.5	China P.R.	Pending	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
201310269041.6	China P.R.	Pending	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
09791910.4	European Patent Convention	Pending	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
963/CHENP/2011	India	Pending	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
5502870	Japan	Granted	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
2014-052201	Japan	Pending	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
10-1237360	Republic of Korea	Granted	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
2491779	Russian Federation	Granted	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
2510898	Russian Federation	Granted	Relay architecture framework	ATIS.3GPP.36.300V1090-2013

102120391	Taiwan	Pending	Relay architecture framework	ATIS.3GPP.36.300V1090-2013
8,325,661	United States	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
2009285737	Australia	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
2013203981	Australia	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
PI0917904-6	Brazil	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
13/692,647	United States	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
2734262	Canada	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
200980133264.1	China P.R.	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
12100623.1	Hong Kong	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
09792009.4	European Patent Convention	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
W-00201101112	Indonesia	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
211108	Israel	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
948/CHENP/2011	India	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
2011-525206	Japan	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
2013-054998	Japan	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
10-1281680	Republic of Korea	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
306868	Mexico	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
PI 2011000568	Malaysia	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
1-2011-500273	Philippines	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
2504919	Russian Federation	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
201306365-6	Singapore	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
I413430	Taiwan	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
99672	Ukraine	Granted	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
1-2011-00812	Vietnam	Pending	Supporting multiple access technologies in a wireless environment	ATIS.3GPP.36.211V1070-2013
12/557,437	United States	Pending	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
ZL200980135399.1	China P.R.	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
EP2353244	Germany	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
EP2353244	European Patent Convention	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
EP2353244	Great Britain	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
2075/CHENP/2011	India	Pending	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
5373087	Japan	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
10-1237846	Republic of Korea	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.212V1070-2013
12/557,437	United States	Pending	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013
ZL200980135399.1	China P.R.	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013
EP2353244	Germany	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013
EP2353244	European Patent Convention	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013
EP2353244	Great Britain	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013
2075/CHENP/2011	India	Pending	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013
5373087	Japan	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013
10-1237846	Republic of Korea	Granted	Efficiently identifying system waveform in uplink transmission	ATIS.3GPP.36.213V1070-2013

12/557,435	United States	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
PI0918177-6	Brazil	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
2736874	Canada	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
200980135417.6	China P.R.	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
09792481.5	European Patent Convention	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
322/MUMNP/2011	India	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
5313353	Japan	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
10-1267694	Republic of Korea	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
2493676	Russian Federation	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
201306732-7	Singapore	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
I403193	Taiwan	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.101V10100-2013
12/557,435	United States	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
PI0918177-6	Brazil	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
2736874	Canada	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
200980135417.6	China P.R.	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
09792481.5	European Patent Convention	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
322/MUMNP/2011	India	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
5313353	Japan	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
10-1267694	Republic of Korea	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
2493676	Russian Federation	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013

201306732-7	Singapore	Pending	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
I403193	Taiwan	Granted	Interference management for different wireless communication technologies	ATIS.3GPP.36.133V10100-2013
12/555,709	United States	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2009291740	Australia	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI0918425-2	Brazil	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2734693	Canada	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
ZL200980135567.7	China P.R.	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
HK1158848	Hong Kong	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
09792428.6	European Patent Convention	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
W-00201101261	Indonesia	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
211261	Israel	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1206/CHENP/2011	India	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5329667	Japan	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1214183	Republic of Korea	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
303645	Mexico	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI 2011000726	Malaysia	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2011-500392	Philippines	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2480919	Russian Federation	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
201305184-2	Singapore	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
I404371	Taiwan	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013

100917	Ukraine	Granted	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2011-00813	Vietnam	Pending	Method and apparatus for managing a new data indicator in a wireless communication system	ATIS.3GPP.36.321V1080-2013
8,676,133	United States	Granted	Reference signal design for LTE A	ATIS.3GPP.36.211V1070-2013
2009293010	Australia	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
2014200865	Australia	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
PI0918550-0	Brazil	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
2736098	Canada	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
ZL200980136822.X	China P.R.	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
201410446295.5	China P.R.	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
11110295.8	Hong Kong	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
14/205,808	United States	Pending	Reference signal design for LTE A	ATIS.3GPP.36.211V1070-2013
09792741.2	European Patent Convention	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
W-00201101400	Indonesia	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
1546/CHENP/2011	India	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
5635000	Japan	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
2014-142573	Japan	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
10-1293152	Republic of Korea	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
309195	Mexico	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
PI 2011000976	Malaysia	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
1-2011-500465	Philippines	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
2474049	Russian Federation	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
201307044-6	Singapore	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
I420842	Taiwan	Granted	Reference signal design for LTE A	ATIS.3GPP.36.211V1070-2013
2011/02421	South Africa	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.211V1070-2013
8,676,133	United States	Granted	Reference signal design for LTE A	ATIS.3GPP.36.213V1070-2013
2009293010	Australia	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
2014200865	Australia	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
PI0918550-0	Brazil	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
2736098	Canada	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
ZL200980136822.X	China P.R.	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
201410446295.5	China P.R.	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
11110295.8	Hong Kong	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
14/205,808	United States	Pending	Reference signal design for LTE A	ATIS.3GPP.36.213V1070-2013
09792741.2	European Patent Convention	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
W-00201101400	Indonesia	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
1546/CHENP/2011	India	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
5635000	Japan	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
2014-142573	Japan	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
10-1293152	Republic of Korea	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013

309195	Mexico	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
PI 2011000976	Malaysia	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
1-2011-500465	Philippines	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
2474049	Russian Federation	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
201307044-6	Singapore	Pending	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
I420842	Taiwan	Granted	Reference signal design for LTE A	ATIS.3GPP.36.213V1070-2013
2011/02421	South Africa	Granted	Reference signal design for LTE advanced	ATIS.3GPP.36.213V1070-2013
8,619,544	United States	Granted	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
PI0919137-2	Brazil	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
2737936	Canada	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
ZL200980146382.6	China P.R.	Granted	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
12103699.4	Hong Kong	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
09792917.8	European Patent Convention	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
W-00201101444	Indonesia	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
211703	Israel	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
1788/CHENP/2011	India	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
2011-529195	Japan	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
2014-152380	Japan	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
10-1312463	Republic of Korea	Granted	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
10-2013-7013800	Republic of Korea	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
PI 2011001106	Malaysia	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
1-2011-500553	Philippines	Pending	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
2488223	Russian Federation	Granted	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
I429215	Taiwan	Granted	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013

2011/02422	South Africa	Granted	Apparatus and method for facilitating transmit diversity for communications	ATIS.3GPP.36.211V1070-2013
8,391,401	United States	Granted	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
PI0919138-0	Brazil	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
13/784,598	United States	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
ZL200980136788.6	China P.R.	Granted	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
UNKNOWN	China P.R.	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
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UNKNOWN	China P.R.	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
UNKNOWN	China P.R.	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
13/784,629	United States	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
8,711,973	United States	Granted	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
13/784,708	United States	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
09792915.2	European Patent Convention	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
449/MUMNP/2011	India	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
5490807	Japan	Granted	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
2014-035986	Japan	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
10-1311029	Republic of Korea	Granted	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
I405486	Taiwan	Granted	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
102126753	Taiwan	Pending	Highly detectable pilot structure	ATIS.3GPP.36.211V1070-2013
12/400,675	United States	Pending	Cell detection for mobile location with grouping diversity	ATIS.3GPP.36.211V1070-2013
8,614,975	United States	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Austria	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Belgium	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
PI0918052-4	Brazil	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
14/081,893	United States	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
2736101	Canada	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Switzerland	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
ZL200980136456.8	China P.R.	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
201410478354.7	China P.R.	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
12101520.3	Hong Kong	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Germany	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Denmark	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	European Patent Convention	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
14167754.2	European Patent Convention	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Spain	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Finland	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	France	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Great Britain	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Greece	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Hungary	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013

UNKNOWN	Indonesia	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Ireland	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
1558/CHENP/2011	India	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Italy	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
5199476	Japan	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
5475093	Japan	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
5485432	Japan	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
10-1234732	Republic of Korea	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Netherlands	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Norway	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
1-2011-500466	Philippines	Pending	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Poland	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Portugal	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Romania	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
2478262	Russian Federation	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
EP2329669	Sweden	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
I424771	Taiwan	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
2011/02420	South Africa	Granted	Synchronizing a base station in a wireless communication system	ATIS.3GPP.36.413V1060-2013
12/564,415	United States	Pending	Method and apparatus for reducing successive pre-registration attempts by access terminals	ATIS.3GPP.36.331V1090-2013
200980146386.4	China P.R.	Pending	Method and apparatus for reducing successive pre-registration attempts by access terminals	ATIS.3GPP.36.331V1090-2013
201410424649.6	China P.R.	Pending	Method and apparatus for reducing successive pre-registration attempts by access terminals	ATIS.3GPP.36.331V1090-2013
09792919.4	European Patent Convention	Pending	Method and apparatus for reducing successive pre-registration attempts by access terminals	ATIS.3GPP.36.331V1090-2013
13185170.1	European Patent Convention	Pending	Method and apparatus for reducing successive pre-registration attempts by access terminalstimer;methods and apparatuses for deploying pre-registration zones to reduce successive pre-registrations	ATIS.3GPP.36.331V1090-2013
1789/CHENP/2011	India	Pending	Method and apparatus for reducing successive pre-registration attempts by access terminals	ATIS.3GPP.36.331V1090-2013
5579722	Japan	Granted	Method and apparatus for reducing successive pre-registration attempts by access terminals	ATIS.3GPP.36.331V1090-2013
10-1311263	Republic of Korea	Granted	Method and apparatus for reducing successive pre-registration attempts by access terminals	ATIS.3GPP.36.331V1090-2013
12/568,242	United States	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
PI0919522-0	Brazil	Pending	Techinques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013

ZL200980139430.9	China P.R.	Granted	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
201410145801.7	China P.R.	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
14/530,381	United States	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
09793142.2	European Patent Convention	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
529/MUMNP/2011	India	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
2011-530148	Japan	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
2014-089147	Japan	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
10-1352254	Republic of Korea	Granted	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
10-1388361	Republic of Korea	Granted	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
2013-7011972	Republic of Korea	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
2013-7026634	Republic of Korea	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
098133191	Taiwan	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
102106994	Taiwan	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
12/568,255	United States	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
200980139429.6	China P.R.	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
527/MUMNP/2011	India	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
2011-530149	Japan	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
2011-7010013	Republic of Korea	Pending	Techniques for supporting relay operation in wireless communication systems	ATIS.3GPP.36.216V1031-2013
12/616,011	United States	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
PI0921523-9	Brazil	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
2742482	Canada	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
200980152523.5	China P.R.	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
12105205.6	Hong Kong	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013

09752978.8	European Patent Convention	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
W-00201102075	Indonesia	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
3202/DELNP/2011	India	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
2011-536445	Japan	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
2013-142649	Japan	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
10-1343538	Republic of Korea	Granted	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
10-2013-7023723	Republic of Korea	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
PI 2011001798	Malaysia	Pending	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
2507688	Russian Federation	Granted	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
I441500	Taiwan	Granted	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
2011/04311	South Africa	Granted	Channel quality feedback in multicarrier systems	ATIS.3GPP.36.213V1070-2013
12/603,392	United States	Granted	Cell relay packet routing	ATIS.3GPP.36.300V1090-2013
12/604,198	United States	Pending	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
PI0919845-8	Brazil	Pending	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
200980141889.2	China P.R.	Pending	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
EP2359642	Germany	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
EP2359642	European Patent Convention	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
EP2359642	Spain	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
EP2359642	France	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
EP2359642	Great Britain	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
2826/CHENP/2011	India	Pending	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
EP2359642	Italy	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
5384655	Japan	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
5579895	Japan	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
10-1252031	Republic of Korea	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
EP2359642	Netherlands	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
I424766	Taiwan	Granted	Cell relay network attachment procedures	ATIS.3GPP.36.300V1090-2013
12/604,205	United States	Pending	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
ZL200980141865.7	China P.R.	Granted	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
09749249.0	European Patent Convention	Pending	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
2754/CHENP/2011	India	Pending	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
5209796	Japan	Granted	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
10-1383186	Republic of Korea	Granted	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
10-2013-7021816	Republic of Korea	Pending	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
I424728	Taiwan	Granted	Bearer QoS mapping for cell relays	ATIS.3GPP.36.300V1090-2013
12/772,934	United States	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
ZL201080019625.2	China P.R.	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
201410136031.X	China P.R.	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
EP2427985	Germany	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
EP2427985	European Patent Convention	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
EP2427985	Great Britain	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013

7787/CHENP/2011	India	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
5596130	Japan	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
2014-053814	Japan	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
10-1407677	Republic of Korea	Granted	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
099114299	Taiwan	Pending	Transmission of feedback information for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
8,792,427	United States	Granted	Transmission of feedback information for data transmissions on multiple carriers	ATIS.3GPP.36.213V1070-2013
2010245961	Australia	Granted	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
P11013978-8	Brazil	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
2759649	Canada	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
201080019642.6	China P.R.	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
12109604.5	Hong Kong	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
14/444,924	United States	Pending	Transmission of feedback information for data transmissions on multiple carriers	ATIS.3GPP.36.213V1070-2013
10719173.6	European Patent Convention	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
14189477.4	European Patent Convention	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
W-002011104438	Indonesia	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
7784/CHENP/2011	India	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
5596131	Japan	Granted	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013

2014-099584	Japan	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
10-1434992	Republic of Korea	Granted	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
10-1427868	Republic of Korea	Granted	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
1-2011-502193	Philippines	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
2011149235	Russian Federation	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
099114303	Taiwan	Pending	Transmission of feedback information for data transmissions on multiple carriers	ATIS.3GPP.36.213V1070-2013
1-2011-03209	Vietnam	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
2011/08353	South Africa	Pending	Transmission of feedback information in multi-carriers systems and determination of up-link ACK/NACK resources from down-link CCE of the down-link grant	ATIS.3GPP.36.213V1070-2013
12/610,621	United States	Pending	Reprioritization of wireless networks for reselection to support voice call	ATIS.3GPP.36.304V1060-2013
12/642,548	United States	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
PI0923576-0	Brazil	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
200980152047.7	China P.R.	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
09795666.8	European Patent Convention	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
4373/CHENP/2011	India	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
5199486	Japan	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
10-1287051	Republic of Korea	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
10-1331505	Republic of Korea	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
I407811	Taiwan	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.060V1150-2014
12/642,548	United States	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
PI0923576-0	Brazil	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
200980152047.7	China P.R.	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
09795666.8	European Patent Convention	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
4373/CHENP/2011	India	Pending	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
5199486	Japan	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
10-1287051	Republic of Korea	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014

10-1331505	Republic of Korea	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
1407811	Taiwan	Granted	Maintaining closed subscriber group information for access control	ATIS.3GPP.23.401V1150-2014
12/607,899	United States	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
408/2011	United Arab Emirates	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2009308709	Australia	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2014201748	Australia	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
PI0920230-7	Brazil	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2741688	Canada	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2838473	Canada	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
200980142560.8	China P.R.	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
201410001164.6	China P.R.	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
14108121.9	Hong Kong	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
12102775.3	Hong Kong	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
09752037.3	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
14181974.8	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
14181976.3	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
W-00201101914	Indonesia	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2378/CHENP/2011	India	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
5362835	Japan	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2013-147082	Japan	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
10-1280412	Republic of Korea	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
10-1409892	Republic of Korea	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2488239	Russian Federation	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
098136940	Taiwan	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
2011/03982	South Africa	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.23.060V1150-2014
12/607,899	United States	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
408/2011	United Arab Emirates	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2009308709	Australia	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2014201748	Australia	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
PI0920230-7	Brazil	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2741688	Canada	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2838473	Canada	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
200980142560.8	China P.R.	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
201410001164.6	China P.R.	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
14108121.9	Hong Kong	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
12102775.3	Hong Kong	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
09752037.3	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
14181974.8	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
14181976.3	European Patent Convention	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
W-00201101914	Indonesia	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2378/CHENP/2011	India	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013

5362835	Japan	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2013-147082	Japan	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
10-1280412	Republic of Korea	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
10-1409892	Republic of Korea	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2488239	Russian Federation	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
098136940	Taiwan	Pending	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
2011/03982	South Africa	Granted	Support for multiple access modes for home base stations	ATIS.3GPP.36.413V1060-2013
8,638,699	United States	Granted	Method and apparatus for supporting the large service data unit (SDU)	ATIS.3GPP.36.322V1000-2011
14/075,343	United States	Pending	A method and apparatus for supporting the large service data unit (SDU)	ATIS.3GPP.36.322V1000-2011
200980154021.6	China P.R.	Pending	A method and apparatus for supporting the large service data unit (SDU)	ATIS.3GPP.36.322V1000-2011
09756884.4	European Patent Convention	Pending	A method and apparatus for supporting the large service data unit (SDU)	ATIS.3GPP.36.322V1000-2011
2682/CHENP/2011	India	Pending	A method and apparatus for supporting the large service data unit (SDU)	ATIS.3GPP.36.322V1000-2011
5270003	Japan	Granted	A method and apparatus for supporting the large service data unit (SDU)	ATIS.3GPP.36.322V1000-2011
10-1220982	Republic of Korea	Granted	A method and apparatus for supporting the large service data unit	ATIS.3GPP.36.322V1000-2011
I412288	Taiwan	Granted	A method and apparatus for supporting the large service data unit (SDU)	ATIS.3GPP.36.322V1000-2011
7,289,452	United States	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
2003257870	Australia	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
PI0304678-8	Brazil	Pending	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
2446024	Canada	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
2623280	Canada	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
ZL200310104364.6	China P.R.	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	Germany	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	European Patent Convention	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
07012950.7	European Patent Convention	Pending	Transport block size (TBS) signalling enhancement	ATIS.3GPP.36.213V1070-2013
11105649.1	Hong Kong	Pending	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	Spain	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	France	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	Great Britain	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	Hungary	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
198686	India	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	Italy	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
3850826	Japan	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
553022	Republic of Korea	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
239881	Mexico	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013

MY-143944-A	Malaysia	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	Netherlands	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
EP1414202	Romania	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
2274955	Russian Federation	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
253255	Taiwan	Granted	Transport block size (TBS) signaling enhancement	ATIS.3GPP.36.213V1070-2013
6,385,451	United States	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
ZL99810886.3	China P.R.	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
EP1114564	Germany	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
EP1114564	European Patent Convention	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
108200	Finland	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
EP1114564	France	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
EP1114564	Great Britain	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
HK1040869	Hong Kong	Granted	A communication system, a wireless terminal, and a method for handing over a connection between mobile communication networks in a wireless terminal	ATIS.3GPP.23.216V1180-2014
3433186	Japan	Granted	Handover between mobile communication networks	ATIS.3GPP.23.216V1180-2014
7,158,489	United States	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1092288	Austria	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1478107	Austria	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1092288	Germany	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1478107	Germany	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1092288	European Patent Convention	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1478107	European Patent Convention	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
09006135.9	European Patent Convention	Pending	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1092288	France	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
EP1478107	France	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
2339113	Great Britain	Granted	Data Transmission in a TDMA system	ATIS.3GPP.36.101V10100-2013
7,158,489	United States	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
EP1092288	Austria	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
EP1478107	Austria	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
EP1092288	Germany	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
EP1478107	Germany	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
EP1092288	European Patent Convention	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
EP1478107	European Patent Convention	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
09006135.9	European Patent Convention	Pending	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
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EP1478107	France	Granted	Data transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
2339113	Great Britain	Granted	Data Transmission in a TDMA system	ATIS.3GPP.36.304V1060-2013
7,158,579	United States	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Belgium	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
7,623,590	United States	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013

8,416,875	United States	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
2455859	Canada	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
ZL01823530.1	China P.R.	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Germany	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	European Patent Convention	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
10012080.7	European Patent Convention	Pending	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Spain	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Finland	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	France	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Great Britain	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
ID0022285	Indonesia	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Ireland	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
229676	India	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Italy	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
3978426	Japan	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
629465	Republic of Korea	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Netherlands	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
EP1415427	Sweden	Granted	Diversity transmitter and diversity transmission method	ATIS.3GPP.36.211V1070-2013
6,751,227	United States	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Austria	Granted	A signalling method	ATIS.3GPP.36.331V1090-2013
776109	Australia	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
PI0014218-2	Brazil	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
2389711	Canada	Granted	A Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Switzerland	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
ZL00815207.1	China P.R.	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Germany	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	European Patent Convention	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Spain	Granted	A SIGNALLING METHOD AND APPARATUSES IN A CELLULAR NETWORK	ATIS.3GPP.36.331V1090-2013
109320	Finland	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	France	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Great Britain	Granted	A signalling method and apparatuses in a cellular network	ATIS.3GPP.36.331V1090-2013
EP1226733	Italy	Granted	A Signalling method	ATIS.3GPP.36.331V1090-2013
3502604	Japan	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
0451298	Republic of Korea	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
222863	Mexico	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Netherlands	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
RE41,773	United States	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Sweden	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
EP1226733	Turkey	Granted	Signalling method	ATIS.3GPP.36.331V1090-2013
6,535,979	United States	Granted	Method of ciphering data transmission, and cellular radio system	ATIS.3GPP.33.102V1150-2014

EP1064799	Austria	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
750597	Australia	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
PI9907196-7	Brazil	Pending	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
99802508.9	China P.R.	Pending	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
ZL200910209839.5	China P.R.	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
HK1143018	Hong Kong	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
EP1064799	Germany	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
EP1064799	European Patent Convention	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
EP1064799	Spain	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
111433	Finland	Granted	Method of ciphering data transmission, and cellular radio system	ATIS.3GPP.33.102V1150-2014
EP1064799	France	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
EP1064799	Great Britain	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
200260	India	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
EP1064799	Italy	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
4555261	Japan	Granted	Method of ciphering data transmission and cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
431638	Republic of Korea	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
EP1064799	Netherlands	Granted	Method of ciphering data transmission and a cellular radio system employing the method	ATIS.3GPP.33.102V1150-2014
7,003,290	United States	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
7,499,701	United States	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
2320775	Canada	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
ZL99803036.8	China P.R.	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
200810091989.6	China P.R.	Pending	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
09105236.4	Hong Kong	Pending	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1057357	Germany	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	Germany	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013

EP1057357	European Patent Convention	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	European Patent Convention	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1057357	Spain	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	Spain	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
106285	Finland	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1057357	France	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	France	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1057357	Great Britain	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	Great Britain	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1057357	Italy	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	Italy	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
4122132	Japan	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1057357	Netherlands	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	Netherlands	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1057357	Sweden	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
EP1276344	Sweden	Granted	Measurement reporting in a telecommunication system	ATIS.3GPP.36.331V1090-2013
6,680,955	United States	Granted	Technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Austria	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Austria	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
2001243533	Australia	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Belgium	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Belgium	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Belgium	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
PI0109097-6	Brazil	Pending	Method of transmission between the source and the receiver using the technique of compression of the field of heading in a package based on the timer, method of descompactacao of the field of heading, method pope to execute the transference between first and the second entities of net. and. comunicacao system	ATIS.3GPP.36.306V1090-2013
2402438	Canada	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Switzerland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Switzerland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
ZL01806173.7	China P.R.	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
ZL200410097483.8	China P.R.	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169907	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169996	Germany	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Denmark	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Denmark	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013

EP2169906	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169907	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169996	European Patent Convention	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Spain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Spain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Spain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Finland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Finland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Finland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	France	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	France	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	France	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169907	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169996	Great Britain	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Greece	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Greece	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Hungary	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Ireland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Ireland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Ireland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
221435	India	Granted	A system and method for transmitting data in a network by compression technique	ATIS.3GPP.36.306V1090-2013
4003/CHENP/2008	India	Pending	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Italy	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Italy	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Italy	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
4159287	Japan	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
4612028	Japan	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
502313	Republic of Korea	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
232254	Mexico	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Netherlands	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Netherlands	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Netherlands	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Norway	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Poland	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Portugal	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Portugal	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013

EP2490398	Romania	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
2278478	Russian Federation	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP1262052	Sweden	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2169906	Sweden	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
EP2490398	Sweden	Granted	A technique for compressing a header field in a data packet	ATIS.3GPP.36.306V1090-2013
6,957,063	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
EP1064802	Belgium	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
7,266,366	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
ZL99805223.X	China P.R.	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
7,873,354	United States	Granted	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
EP1064802	Germany	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP2154914	Germany	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP1064802	European Patent Convention	Granted	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
09177361.4	European Patent Convention	Pending	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
EP2154914	European Patent Convention	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP1064802	Spain	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP2154914	Spain	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
107859	Finland	Granted	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
EP1064802	Finland	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP1064802	France	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP2154914	France	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP1064802	Great Britain	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP2154914	Great Britain	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP1064802	Ireland	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP1064802	Italy	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP2154914	Italy	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
2009-144220	Japan	Pending	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
2012-257720	Japan	Pending	Services on demand in mobile communications system	ATIS.3GPP.22.146V1110-2014
EP1064802	Netherlands	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP2154914	Netherlands	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
EP1064802	Sweden	Granted	Services on demand in mobile communication system	ATIS.3GPP.22.146V1110-2014
6,807,421	United States	Granted	Method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1068757	Belgium	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	Belgium	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
PI9909307-3	Brazil	Pending	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
ZL99805061.X	China P.R.	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
ZL03101288.4	China P.R.	Granted	Method for establishing mobile connection in telecommunications system	ATIS.3GPP.36.300V1090-2013
ZL200410098324.X	China P.R.	Granted	Cellular telecommunication system	ATIS.3GPP.36.300V1090-2013
7,684,361	United States	Granted	Method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1068757	Germany	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013

EP1209931	Germany	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1068757	European Patent Convention	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	European Patent Convention	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.300V1090-2013
EP1068757	Spain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	Spain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
108772	Finland	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
109168	Finland	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1068757	France	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	France	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1068757	Great Britain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	Great Britain	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.300V1090-2013
EP1068757	Italy	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	Italy	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.300V1090-2013
3515073	Japan	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
4067871	Japan	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1068757	Netherlands	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	Netherlands	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1068757	Sweden	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.300V1090-2013
EP1209931	Sweden	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.300V1090-2013
6,807,421	United States	Granted	Method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1068757	Belgium	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	Belgium	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
PI9909307-3	Brazil	Pending	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
ZL99805061.X	China P.R.	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
ZL03101288.4	China P.R.	Granted	Method for establishing mobile connection in telecommunications system	ATIS.3GPP.36.423V1050-2013
ZL200410098324.X	China P.R.	Granted	Cellular telecommunication system	ATIS.3GPP.36.423V1050-2013
7,684,361	United States	Granted	Method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1068757	Germany	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	Germany	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1068757	European Patent Convention	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	European Patent Convention	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.423V1050-2013
EP1068757	Spain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	Spain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
108772	Finland	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
109168	Finland	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013

EP1068757	France	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	France	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1068757	Great Britain	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	Great Britain	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.423V1050-2013
EP1068757	Italy	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	Italy	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.423V1050-2013
3515073	Japan	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
4067871	Japan	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1068757	Netherlands	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	Netherlands	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1068757	Sweden	Granted	A method for controlling connections to a mobile station	ATIS.3GPP.36.423V1050-2013
EP1209931	Sweden	Granted	A method for setting up a connection of a mobile station in a cellular telecommunication system	ATIS.3GPP.36.423V1050-2013
7,072,663	United States	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
2002215162	Australia	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
PI0114497.9	Brazil	Pending	Radio resource management	ATIS.3GPP.36.331V1090-2013
2423322	Canada	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
ZL01817112.5	China P.R.	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
EP1325660	Germany	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
EP1325660	European Patent Convention	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
EP1325660	France	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
EP1325660	Great Britain	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
EP1325660	Italy	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
4619621	Japan	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
4671995	Japan	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
EP1325660	Netherlands	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
2277762	Russian Federation	Granted	Radio resource management	ATIS.3GPP.36.331V1090-2013
7,986,660	United States	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Austria	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Belgium	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Switzerland	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Germany	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Denmark	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	European Patent Convention	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Spain	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Finland	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	France	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Great Britain	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Greece	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013

EP1325651	Ireland	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Italy	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Netherlands	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Portugal	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
2260923	Russian Federation	Granted	Method for distributing channels for communication system	ATIS.3GPP.36.300V1090-2013
EP1325651	Sweden	Granted	Channel allocation for communication system	ATIS.3GPP.36.300V1090-2013
7,986,660	United States	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Austria	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Belgium	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Switzerland	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Germany	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Denmark	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	European Patent Convention	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Spain	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Finland	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	France	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Great Britain	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Greece	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Ireland	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Italy	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Netherlands	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Portugal	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
2260923	Russian Federation	Granted	Method for distributing channels for communication system	ATIS.3GPP.36.423V1050-2013
EP1325651	Sweden	Granted	Channel allocation for communication system	ATIS.3GPP.36.423V1050-2013
7,096,021	United States	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	Austria	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
PI0010959.2	Brazil	Pending	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
2374864	Canada	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	Switzerland	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
ZL00809377.6	China P.R.	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	Germany	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	European Patent Convention	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013

EP1180316	Spain	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
112583	Finland	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	France	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	Great Britain	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	Italy	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
4933099	Japan	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
469687	Republic of Korea	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	Netherlands	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
EP1180316	Sweden	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.300V1090-2013
7,096,021	United States	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	Austria	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
PI0010959.2	Brazil	Pending	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
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EP1180316	Switzerland	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
ZL00809377.6	China P.R.	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	Germany	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	European Patent Convention	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	Spain	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
112583	Finland	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	France	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013

EP1180316	Great Britain	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	Italy	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
4933099	Japan	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
469687	Republic of Korea	Granted	A method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	Netherlands	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
EP1180316	Sweden	Granted	Method for initiating in a terminal of a cellular network the measurement of power levels of signals and a terminal	ATIS.3GPP.36.331V1090-2013
12/764,736	United States	Pending	Data and control multiplexing in wireless communications	ATIS.3GPP.36.216V1031-2013
201080019448.8	China P.R.	Pending	Data and control multiplexing in wireless communications	ATIS.3GPP.36.216V1031-2013
10717016.9	European Patent Convention	Pending	Data and control multiplexing in wireless communications	ATIS.3GPP.36.216V1031-2013
7786/CHENP/2011	India	Pending	Data and control multiplexing in wireless communications	ATIS.3GPP.36.216V1031-2013
5485378	Japan	Granted	Data and control multiplexing in wireless communications	ATIS.3GPP.36.216V1031-2013
10-1357709	Republic of Korea	Granted	Data and control multiplexing in wireless communications	ATIS.3GPP.36.216V1031-2013
I405488	Taiwan	Granted	Data and control multiplexing in wireless communications	ATIS.3GPP.36.216V1031-2013
12/651,838	United States	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
701/2011	United Arab Emirates	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
PI1007517-8	Brazil	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
2748740	Canada	Granted	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
201080003887.X	China P.R.	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
201410003316.6	China P.R.	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
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12100513.4	Hong Kong	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
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12002375.9	European Patent Convention	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
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P-00201403841	Indonesia	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
1221/MUMNP/2011	India	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
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2013-34388	Japan	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
2014-18262	Japan	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
10-1391027	Republic of Korea	Granted	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
10-1371810	Republic of Korea	Granted	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
312508	Mexico	Granted	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
316209	Mexico	Granted	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
1-2011-501207	Philippines	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
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103134671	Taiwan	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
2011/05617	South Africa	Granted	Hearability improvements for reference signals	ATIS.3GPP.36.211V1070-2013
12/651,838	United States	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.355V1080-2013
701/2011	United Arab Emirates	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.355V1080-2013
PI1007517-8	Brazil	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.355V1080-2013
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12100513.4	Hong Kong	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.355V1080-2013
10701410.2	European Patent Convention	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.355V1080-2013
12002375.9	European Patent Convention	Pending	Hearability improvements for reference signals	ATIS.3GPP.36.355V1080-2013
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312508	Mexico	Granted	Hearability improvements for reference signals	ATIS.3GPP.36.355V1080-2013
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12/618,154	United States	Pending	Radio link failure reporting	ATIS.3GPP.36.300V1090-2013
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5421384	Japan	Granted	Radio link failure reporting	ATIS.3GPP.36.300V1090-2013
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2479154	Russian Federation	Granted	Radio link failure reporting	ATIS.3GPP.36.300V1090-2013
I424759	Taiwan	Granted	Radio link failure reporting	ATIS.3GPP.36.300V1090-2013
2011/04313	South Africa	Pending	Radio link failure reporting	ATIS.3GPP.36.300V1090-2013
12/618,154	United States	Pending	Radio link failure reporting	ATIS.3GPP.36.423V1050-2013
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PI0921095-4	Brazil	Pending	Radio link failure reporting	ATIS.3GPP.36.423V1050-2013
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5421384	Japan	Granted	Radio link failure reporting	ATIS.3GPP.36.423V1050-2013
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2479154	Russian Federation	Granted	Radio link failure reporting	ATIS.3GPP.36.423V1050-2013
I424759	Taiwan	Granted	Radio link failure reporting	ATIS.3GPP.36.423V1050-2013
2011/04313	South Africa	Pending	Radio link failure reporting	ATIS.3GPP.36.423V1050-2013
12/618,240	United States	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.300V1090-2013
PI0921252-3	Brazil	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.300V1090-2013
2742503	Canada	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.300V1090-2013
200980145720.4	China P.R.	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.300V1090-2013
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098139041	Taiwan	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.300V1090-2013
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14108117.5	Hong Kong	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
12103519.2	Hong Kong	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
09756619.4	European Patent Convention	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
W-00201102194	Indonesia	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
2947/CHENP/2011	India	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
5497056	Japan	Granted	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
2013-230727	Japan	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
10-1432770	Republic of Korea	Granted	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
10-2013-7010574	Republic of Korea	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
2482625	Russian Federation	Granted	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
098139041	Taiwan	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
103110332	Taiwan	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
2011/04312	South Africa	Pending	Mobility management based on radio link failure reporting	ATIS.3GPP.36.423V1050-2013
8,259,008	United States	Granted	DGNSS correction for positioning	ATIS.3GPP.36.355V1080-2013
ZL200980146756.4	China P.R.	Granted	DGNSS correction for positioning	ATIS.3GPP.36.355V1080-2013
09752707.1	European Patent Convention	Pending	DGNSS correction for positioning	ATIS.3GPP.36.355V1080-2013
846/MUMNP/2011	India	Pending	DGNSS correction for positioning	ATIS.3GPP.36.355V1080-2013
2011-536580	Japan	Pending	DGNSS correction for positioning	ATIS.3GPP.36.355V1080-2013
10-1237147	Republic of Korea	Granted	DGNSS correction for positioning	ATIS.3GPP.36.355V1080-2013
I408402	Taiwan	Granted	DGNSS correction for positioning	ATIS.3GPP.36.355V1080-2013
8,325,638	United States	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
UNKNOWN	Brazil	Pending	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
8,582,480	United States	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
200980149388.9	China P.R.	Pending	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
09775456.8	European Patent Convention	Pending	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
3457/CHENP/2011	India	Pending	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
5611973	Japan	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
2014-024598	Japan	Pending	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
10-1287517	Republic of Korea	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
I411329	Taiwan	Granted	Performing packet flow optimization with policy and charging control	ATIS.3GPP.23.203V1190-2014
8,520,632	United States	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
200980152054.7	China P.R.	Pending	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
09799225.9	European Patent Convention	Pending	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
3831/CHENP/2011	India	Pending	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
5551182	Japan	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013

2014-064645	Japan	Pending	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10-1360930	Republic of Korea	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10-1360931	Republic of Korea	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10-1360924	Republic of Korea	Granted	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
098145588	Taiwan	Pending	Method and apparatus for synchronization during a handover failure in a wireless communication system	ATIS.3GPP.36.331V1090-2013
12/816,929	United States	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
PI1014321-1	Brazil	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
201080027501.9	China P.R.	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
10740445.1	European Patent Convention	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
9078/CHENP/2011	India	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
5536206	Japan	Granted	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
10-1312443	Republic of Korea	Granted	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
099120312	Taiwan	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.211V1070-2013
12/816,929	United States	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013
PI1014321-1	Brazil	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013
201080027501.9	China P.R.	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013
10740445.1	European Patent Convention	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013
9078/CHENP/2011	India	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013
5536206	Japan	Granted	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013
10-1312443	Republic of Korea	Granted	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013

099120312	Taiwan	Pending	Transmission of reference signal on non-contiguous clusters of resources	ATIS.3GPP.36.213V1070-2013
8,526,419	United States	Granted	Provision of inter-frequency subframe configuration in wireless communication	ATIS.3GPP.36.331V1090-2013
201080003952.9	China P.R.	Pending	Provision of inter-frequency subframe configuration in wireless communication	ATIS.3GPP.36.331V1090-2013
10700136.4	European Patent Convention	Pending	Provision of inter-frequency subframe configuration in wireless communication	ATIS.3GPP.36.331V1090-2013
3921/CHENP/2011	India	Pending	Provision of inter-frequency subframe configuration in wireless communication	ATIS.3GPP.36.331V1090-2013
5536100	Japan	Granted	Provision of inter-frequency subframe configuration in wireless communication	ATIS.3GPP.36.331V1090-2013
10-2011-7018394	Republic of Korea	Granted	Provision of inter-frequency subframe configuration in wireless communication	ATIS.3GPP.36.331V1090-2013
10-2013-7032335	Republic of Korea	Pending	Provision of inter-frequency subframe configuration in wireless communication	ATIS.3GPP.36.331V1090-2013
099100126	Taiwan	Pending	Method, apparatus, processor and computer program product for wireless communication	ATIS.3GPP.36.331V1090-2013
12/642,277	United States	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.300V1090-2013
200980152116.4	China P.R.	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.300V1090-2013
09799466.9	European Patent Convention	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.300V1090-2013
4366/CHENP/2011	India	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.300V1090-2013
2011-543663	Japan	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.300V1090-2013
2014-027879	Japan	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.300V1090-2013
10-2011-7017453	Republic of Korea	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.300V1090-2013
12/642,277	United States	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
200980152116.4	China P.R.	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
09799466.9	European Patent Convention	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
4366/CHENP/2011	India	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013

2011-543663	Japan	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
2014-027879	Japan	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
10-2011-7017453	Republic of Korea	Pending	Access point handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
12/642,292	United States	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
200980152046.2	China P.R.	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
09799467.7	European Patent Convention	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
4346/CHENP/2011	India	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
2013-021291	Japan	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
2013-021292	Japan	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
10-1290188	Republic of Korea	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
I399106	Taiwan	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.23.060V1150-2014
12/642,292	United States	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
200980152046.2	China P.R.	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
09799467.7	European Patent Convention	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
4346/CHENP/2011	India	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
2013-021291	Japan	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
2013-021292	Japan	Pending	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
10-1290188	Republic of Korea	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
I399106	Taiwan	Granted	Handover control based on closed subscriber group subscription information	ATIS.3GPP.36.413V1060-2013
12/651,746	United States	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
201080004065.3	China P.R.	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
201310674730.5	China P.R.	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013

14108125.5	Hong Kong	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
201310673705.5	China P.R.	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
EP2386174	Germany	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
EP2386174	European Patent Convention	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
13150973.9	European Patent Convention	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
EP2386174	Spain	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
EP2386174	France	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
EP2386174	Great Britain	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
3962/CHENP/2011	India	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
EP2386174	Italy	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
5607073	Japan	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
10-1258198	Republic of Korea	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
10-1343960	Republic of Korea	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
10-1343958	Republic of Korea	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
EP2386174	Netherlands	Granted	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
099100202	Taiwan	Pending	Handover failure messaging schemes	ATIS.3GPP.36.300V1090-2013
12/651,746	United States	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
201080004065.3	China P.R.	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
201310674730.5	China P.R.	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
14108125.5	Hong Kong	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
201310673705.5	China P.R.	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
EP2386174	Germany	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
EP2386174	European Patent Convention	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
13150973.9	European Patent Convention	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
EP2386174	Spain	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
EP2386174	France	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
EP2386174	Great Britain	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
3962/CHENP/2011	India	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
EP2386174	Italy	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
5607073	Japan	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
10-1258198	Republic of Korea	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
10-1343960	Republic of Korea	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
10-1343958	Republic of Korea	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
EP2386174	Netherlands	Granted	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
099100202	Taiwan	Pending	Handover failure messaging schemes	ATIS.3GPP.36.423V1050-2013
12/651,755	United States	Pending	Adaptation of handover parameters	ATIS.3GPP.36.300V1090-2013
ZL201080004071.9	China P.R.	Granted	Adaption of handover parameters	ATIS.3GPP.36.300V1090-2013
201410301328.7	China P.R.	Pending	Adaption of handover parameters	ATIS.3GPP.36.300V1090-2013
10700138.0	European Patent Convention	Pending	Adaption of handover parameters	ATIS.3GPP.36.300V1090-2013
3990/CHENP/2011	India	Pending	Adaption of handover parameters	ATIS.3GPP.36.300V1090-2013
5345707	Japan	Granted	Adaption of handover parameters	ATIS.3GPP.36.300V1090-2013

10-1343956	Republic of Korea	Granted	Adaption of handover parameters	ATIS.3GPP.36.300V1090-2013
10-1317791	Republic of Korea	Granted	Adaption of handover parameters	ATIS.3GPP.36.300V1090-2013
099100201	Taiwan	Pending	Adaptation of handover parameters	ATIS.3GPP.36.300V1090-2013
12/651,755	United States	Pending	Adaptation of handover parameters	ATIS.3GPP.36.423V1050-2013
ZL201080004071.9	China P.R.	Granted	Adaption of handover parameters	ATIS.3GPP.36.423V1050-2013
201410301328.7	China P.R.	Pending	Adaption of handover parameters	ATIS.3GPP.36.423V1050-2013
10700138.0	European Patent Convention	Pending	Adaption of handover parameters	ATIS.3GPP.36.423V1050-2013
3990/CHENP/2011	India	Pending	Adaption of handover parameters	ATIS.3GPP.36.423V1050-2013
5345707	Japan	Granted	Adaption of handover parameters	ATIS.3GPP.36.423V1050-2013
10-1343956	Republic of Korea	Granted	Adaption of handover parameters	ATIS.3GPP.36.423V1050-2013
10-1317791	Republic of Korea	Granted	Adaption of handover parameters	ATIS.3GPP.36.423V1050-2013
099100201	Taiwan	Pending	Adaptation of handover parameters	ATIS.3GPP.36.423V1050-2013
8,594,155	United States	Granted	Multi-carrier transmitter design on adjacent carriers in a single frequency band on the uplink in W-CDMA/HSPA	T1.3GPP.25.213V390-2004
201080003994.2	China P.R.	Pending	Multi-carrier transmission over a single frequency band	T1.3GPP.25.213V390-2004
10700137.2	European Patent Convention	Pending	Multi-carrier transmission over a single frequency band	T1.3GPP.25.213V390-2004
3955/CHENP/2011	India	Pending	Multi-carrier transmission over a single frequency band	T1.3GPP.25.213V390-2004
5456790	Japan	Granted	Multi-carrier transmission over a single frequency band	T1.3GPP.25.213V390-2004
2013-229862	Japan	Pending	Multi-carrier transmission over a single frequency band	T1.3GPP.25.213V390-2004
10-1271579	Republic of Korea	Granted	Multi-carrier transmission over a single frequency band	T1.3GPP.25.213V390-2004
099100192	Taiwan	Pending	Multi-carrier transmission over a single frequency band	T1.3GPP.25.213V390-2004
8,737,374	United States	Granted	System and method for packet acknowledgment	ATIS.3GPP.36.212V1070-2013
ZL201080004058.3	China P.R.	Granted	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
13/871,880	United States	Pending	System and method for packet acknowledgment	ATIS.3GPP.36.212V1070-2013
EP2386153	Germany	Granted	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
EP2386153	European Patent Convention	Granted	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
12166868.5	European Patent Convention	Pending	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
EP2386153	Great Britain	Granted	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
3954/CHENP/2011	India	Pending	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
5536101	Japan	Granted	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
2014-033268	Japan	Pending	System and method for packet acknowledgment using an acknowledgment codebook	ATIS.3GPP.36.212V1070-2013
099100232	Taiwan	Pending	System and method for packet acknowledgment	ATIS.3GPP.36.212V1070-2013
8,737,374	United States	Granted	System and method for packet acknowledgment	T1.3GPP.25.212V3110-2003

ZL201080004058.3	China P.R.	Granted	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
13/871,880	United States	Pending	System and method for packet acknowledgment	T1.3GPP.25.212V3110-2003
EP2386153	Germany	Granted	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
EP2386153	European Patent Convention	Granted	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
12166868.5	European Patent Convention	Pending	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
EP2386153	Great Britain	Granted	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
3954/CHENP/2011	India	Pending	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
5536101	Japan	Granted	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
2014-033268	Japan	Pending	System and method for packet acknowledgment using an acknowledgment codebook	T1.3GPP.25.212V3110-2003
099100232	Taiwan	Pending	System and method for packet acknowledgment	T1.3GPP.25.212V3110-2003
12/685,239	United States	Pending	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI1006878-3	Brazil	Pending	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
201080004327.6	China P.R.	Pending	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10702939.9	European Patent Convention	Pending	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
4800/CHENP/2011	India	Pending	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2011-545531	Japan	Pending	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5635176	Japan	Granted	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-1444447	Republic of Korea	Granted	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10-2013-7028111	Republic of Korea	Pending	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
I419588	Taiwan	Granted	Method and apparatus for enabling multiple transmission modes in a wireless communication system	ATIS.3GPP.36.212V1070-2013
8,432,873	United States	Granted	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013

8,837,437	United States	Granted	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
201080004330.8	China P.R.	Pending	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
10700200.8	European Patent Convention	Pending	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
4337/CHENP/2011	India	Pending	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
5425936	Japan	Granted	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
2013-086520	Japan	Pending	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
10-1281000	Republic of Korea	Granted	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
I441475	Taiwan	Granted	Method and apparatus for computing and reporting channel quality indication (CQI)	ATIS.3GPP.36.213V1070-2013
12/621,945	United States	Pending	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Austria	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Belgium	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
2749286	Canada	Pending	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Switzerland	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
200980155947.7	China P.R.	Pending	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
12104102.3	Hong Kong	Pending	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Germany	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Denmark	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
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EP2382832	Spain	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Finland	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	France	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
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EP2382832	Italy	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
5485296	Japan	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
10-1396298	Republic of Korea	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
PI 2011003083	Malaysia	Pending	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
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EP2382832	Norway	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013

EP2382832	Poland	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Portugal	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Romania	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
2501190	Russian Federation	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
EP2382832	Sweden	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
098146485	Taiwan	Pending	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
103790	Ukraine	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.211V1070-2013
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12/621,945	United States	Pending	Frequency hopping in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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EP2382832	Belgium	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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EP2382832	Poland	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.213V1070-2013
EP2382832	Portugal	Granted	Frequency hopping in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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8,731,551	United States	Granted	CSG membership indication	ATIS.3GPP.23.060V1150-2014
PI1007478-3	Brazil	Pending	CSG membership indication	ATIS.3GPP.23.060V1150-2014
201080005788.5	China P.R.	Pending	CSG membership indication	ATIS.3GPP.23.060V1150-2014
4614/CHENP/2011	India	Pending	CSG membership indication	ATIS.3GPP.23.060V1150-2014
5270009	Japan	Granted	CSG membership indication	ATIS.3GPP.23.060V1150-2014
10-1321088	Republic of Korea	Granted	CSG membership indication	ATIS.3GPP.23.060V1150-2014
12/702,551	United States	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
PI1007958-0	Brazil	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
2752083	Canada	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
201080009760.9	China P.R.	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
12105006.7	Hong Kong	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
10709315.5	European Patent Convention	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
W-00201103407	Indonesia	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
1630/MUMNP/2011	India	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
2011-552084	Japan	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
10-1309669	Republic of Korea	Granted	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
1-2011-501679	Philippines	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
2494552	Russian Federation	Granted	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
099105365	Taiwan	Pending	Flexible data and control multiplexing	ATIS.3GPP.36.213V1070-2013
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8,503,572	United States	Granted	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
773/2011	United Arab Emirates	Pending	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
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2750105	Canada	Pending	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
ZL201080012790.5	China P.R.	Granted	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
12108227.4	Hong Kong	Pending	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
10702983.7	European Patent Convention	Pending	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
W-00201103086	Indonesia	Pending	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
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5373117	Japan	Granted	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
10-1277137	Republic of Korea	Granted	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
1-2011-501524	Philippines	Pending	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
2491722	Russian Federation	Granted	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
I414158	Taiwan	Granted	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.211V1070-2013
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8,503,572	United States	Granted	Antenna virtualization in a wireless communication environment	ATIS.3GPP.36.331V1090-2013
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8,521,207	United States	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
791/2011	United Arab Emirates	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Austria	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Belgium	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
PI1008195-0	Brazil	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2750204	Canada	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Switzerland	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
ZL201080006269.0	China P.R.	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
HK1161490	Hong Kong	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
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EP2394473	Greece	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Hungary	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
Not yet received	Indonesia	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Ireland	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
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2011-549335	Japan	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
10-1284107	Republic of Korea	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
PI 2011003283	Malaysia	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Netherlands	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Norway	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
1-2011-501402	Philippines	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Poland	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
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EP2394473	Romania	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2479162	Russian Federation	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
EP2394473	Sweden	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
099104074	Taiwan	Pending	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2011/06204	South Africa	Granted	Closed-loop power control in multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
12/764,347	United States	Pending	PCFICH design for multicarrier operation	ATIS.3GPP.36.213V1070-2013
PI1011969-8	Brazil	Pending	PCFICH design for multicarrier operation	ATIS.3GPP.36.213V1070-2013
201080019492.9	China P.R.	Pending	PCFICH design for multicarrier operation	ATIS.3GPP.36.213V1070-2013

201410662668.2	China P.R.	Pending	PCFICH design for multicarrier operation	ATIS.3GPP.36.213V1070-2013
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7835/CHENP/2011	India	Pending	PCFICH design for multicarrier operation	ATIS.3GPP.36.213V1070-2013
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1455551	Taiwan	Granted	PCFICH design for multicarrier operation	ATIS.3GPP.36.213V1070-2013
8,655,395	United States	Granted	Systems, methods and apparatus for facilitating discontinuous reception	ATIS.3GPP.36.321V1080-2013
201080019347.0	China P.R.	Pending	Systems, methods and apparatus for facilitating discontinuous reception in a multi-carrier wireless communication system	ATIS.3GPP.36.321V1080-2013
10718384.0	European Patent Convention	Pending	Systems, methods and apparatus for facilitating discontinuous reception in a multi-carrier wireless communication system	ATIS.3GPP.36.321V1080-2013
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5524329	Japan	Granted	Systems, methods and apparatus for facilitating discontinuous reception in a multi-carrier wireless communication system	ATIS.3GPP.36.321V1080-2013
2014-018806	Japan	Pending	Systems, methods and apparatus for facilitating discontinuous reception in a multi-carrier wireless communication system	ATIS.3GPP.36.321V1080-2013
10-1378126	Republic of Korea	Granted	Systems, methods and apparatus for facilitating discontinuous reception in a multi-carrier wireless communication system	ATIS.3GPP.36.321V1080-2013
8,655,395	United States	Granted	Systems, methods and apparatus for facilitating discontinuous reception	ATIS.3GPP.36.331V1090-2013
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10-1378126	Republic of Korea	Granted	Systems, methods and apparatus for facilitating discontinuous reception in a multi-carrier wireless communication system	ATIS.3GPP.36.331V1090-2013
8,737,502	United States	Granted	Multiplexing and coding schemes for multiple transmit antennas in a wireless communication system	ATIS.3GPP.36.211V1070-2013
201080007912.1	China P.R.	Pending	Multiplexing and coding schemes for multiple transmit antennas in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10704679.9	European Patent Convention	Pending	Multiplexing and coding schemes for multiple transmit antennas in a wireless communication system	ATIS.3GPP.36.211V1070-2013

5906/CHENP/2011	India	Pending	Multiplexing and coding schemes for multiple transmit antennas in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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10-1321770	Republic of Korea	Granted	Multiplexing and coding schemes for multiple transmit antennas in a wireless communication system	ATIS.3GPP.36.211V1070-2013
099104041	Taiwan	Pending	Multiplexing and coding scheme for multiple transmit antennas in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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099104041	Taiwan	Pending	Multiplexing and coding scheme for multiple transmit antennas in a wireless communication system	ATIS.3GPP.36.213V1070-2013
12/622,265	United States	Pending	Carrier timing for wireless communications systems	T1.3GPP.25.211V3120-2003
PI1009311-7	Brazil	Pending	Carrier timing for wireless communications systems	T1.3GPP.25.211V3120-2003
ZL201080011922.2	China P.R.	Granted	Carrier timing for wireless communications systems	T1.3GPP.25.211V3120-2003
10711493.6	European Patent Convention	Pending	Carrier timing for wireless communications systems	T1.3GPP.25.211V3120-2003
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5490872	Japan	Granted	Carrier timing for wireless communications systems	T1.3GPP.25.211V3120-2003
10-1312481	Republic of Korea	Granted	Carrier timing for wireless communications systems	T1.3GPP.25.211V3120-2003
8,886,205	United States	Granted	Timing adjustment for synchronous operation in a wireless network	ATIS.3GPP.36.133V10100-2013
PI1009230-7	Brazil	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
201080010017.5	China P.R.	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
201410088946.8	China P.R.	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
14/506,886	United States	Pending	Timing adjustment for synchronous operation in a wireless network	ATIS.3GPP.36.133V10100-2013

10708847.8	European Patent Convention	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
12161259.2	European Patent Convention	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
6359/CHENP/2011	India	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
2011-553048	Japan	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
2013-189907	Japan	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
10-1410373	Republic of Korea	Granted	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
10-2013-7010477	Republic of Korea	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
10-2014-7026001	Republic of Korea	Pending	Timing adjustment for synchronous operation in overlaid wireless networks	ATIS.3GPP.36.133V10100-2013
099105983	Taiwan	Pending	Timing adjustment for synchronous operation in a wireless network	ATIS.3GPP.36.133V10100-2013
8,577,387	United States	Granted	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
201080015861.7	China P.R.	Pending	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
201310553507.5	China P.R.	Pending	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
13/942,531	United States	Pending	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
10747715.0	European Patent Convention	Pending	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
13000768.5	European Patent Convention	Pending	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
2097/MUMNP/2011	India	Pending	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
5518993	Japan	Granted	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
2013-250632	Japan	Pending	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
10-1329212	Republic of Korea	Granted	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
10-1275064	Republic of Korea	Granted	Position location using multiple carriers	ATIS.3GPP.36.355V1080-2013
10709622.4	European Patent Convention	Pending	Random access channel (RACH) optimization for a self-organizing network (SON)	ATIS.3GPP.36.423V1050-2013
12/720,911	United States	Pending	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	ATIS.3GPP.36.213V1070-2013
201080019461.3	China P.R.	Pending	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	ATIS.3GPP.36.213V1070-2013
EP2409546	Germany	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	ATIS.3GPP.36.213V1070-2013
EP2409546	European Patent Convention	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	ATIS.3GPP.36.213V1070-2013
6435/CHENP/2011	India	Pending	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	ATIS.3GPP.36.213V1070-2013

5431569	Japan	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	ATIS.3GPP.36.213V1070-2013
10-1309541	Republic of Korea	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	ATIS.3GPP.36.213V1070-2013
12/720,911	United States	Pending	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	T1.3GPP.25.211V3120-2003
201080019461.3	China P.R.	Pending	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	T1.3GPP.25.211V3120-2003
EP2409546	Germany	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	T1.3GPP.25.211V3120-2003
EP2409546	European Patent Convention	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	T1.3GPP.25.211V3120-2003
6435/CHENP/2011	India	Pending	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	T1.3GPP.25.211V3120-2003
5431569	Japan	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	T1.3GPP.25.211V3120-2003
10-1309541	Republic of Korea	Granted	Discontinuous uplink transmission operation and interference avoidance for a multi-carrier system	T1.3GPP.25.211V3120-2003
8,514,732	United States	Granted	System and method for effectuating a signal carrier configuration	T1.3GPP.25.212V3110-2003
ZL201080012162.7	China P.R.	Granted	System and method for effectuating a signal carrier configuration	T1.3GPP.25.212V3110-2003
10711300.3	European Patent Convention	Pending	System and method for effectuating a signal carrier configuration	T1.3GPP.25.212V3110-2003
6365/CHENP/2011	India	Pending	System and method for effectuating a signal carrier configuration	T1.3GPP.25.212V3110-2003
5274707	Japan	Granted	System and method for effectuating a signal carrier configuration	T1.3GPP.25.212V3110-2003
10-1334236	Republic of Korea	Granted	System and method for effectuating a signal carrier configuration	T1.3GPP.25.212V3110-2003
099107938	Taiwan	Pending	System and method for effectuating a signal carrier configuration	T1.3GPP.25.212V3110-2003
12/722,396	United States	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
PI1009353-2	Brazil	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
BR1220130221034	Brazil	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
BR1220130221093	Brazil	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
BR1220130221077	Brazil	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
BR1220130221050	Brazil	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
201080010997.9	China P.R.	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
14/533,919	United States	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013

EP2406994	Germany	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
EP2406994	European Patent Convention	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
13157249.7	European Patent Convention	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
13157255.4	European Patent Convention	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
13157261.2	European Patent Convention	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
13157267.9	European Patent Convention	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
EP2406994	Spain	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
EP2406994	France	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
EP2406994	Great Britain	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
6354/CHENP/2011	India	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
EP2406994	Italy	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
5373123	Japan	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
2013-098644	Japan	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
2013-098645	Japan	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
2013-098646	Japan	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
2013-098647	Japan	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
10-1391873	Republic of Korea	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
10-2013-7018915	Republic of Korea	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
10-2013-7018918	Republic of Korea	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
10-1446741	Republic of Korea	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013

10-2014-7000654	Republic of Korea	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
EP2406994	Netherlands	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
I444070	Taiwan	Granted	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
102145382	Taiwan	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
102145388	Taiwan	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
102145389	Taiwan	Pending	Methods and apparatus for adjacent channel interference mitigation in access point base stations	ATIS.3GPP.36.104V10100-2013
8,514,794	United States	Granted	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
903/2011	United Arab Emirates	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
PI1009387-7	Brazil	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2754155	Canada	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
201080012471.4	China P.R.	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
12104646.6	Hong Kong	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
10713055.1	European Patent Convention	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
W-00201103745	Indonesia	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
6360/CHENP/2011	India	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
5306536	Japan	Granted	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
10-1326632	Republic of Korea	Granted	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2495542	Russian Federation	Granted	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
1101002061	Thailand	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
099107935	Taiwan	Pending	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004

2011/07332	South Africa	Granted	Loop power controls for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
12/719,771	United States	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
1272/2011	United Arab Emirates	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
PI1015003-0	Brazil	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2764034	Canada	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
201080027175.1	China P.R.	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
12108440.5	Hong Kong	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
10711299.7	European Patent Convention	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
W-00201200214	Indonesia	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
9179/CHENP/2011	India	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2012-516076	Japan	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
10-1354564	Republic of Korea	Granted	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2496268	Russian Federation	Granted	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
1101003695	Thailand	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
099108054	Taiwan	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
1-2012-00027	Vietnam	Pending	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
2011/09503	South Africa	Granted	Power scaling for multi-carrier high-speed uplink packet access	T1.3GPP.25.214V3120-2004
8,503,316	United States	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
912/2011	United Arab Emirates	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2010226816	Australia	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI1009312-5	Brazil	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2753655	Canada	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL201080011978.8	China P.R.	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
12108007.0	Hong Kong	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10709667.9	European Patent Convention	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00201103746	Indonesia	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
6316/CHENP/2011	India	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5529252	Japan	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013

2014-084575	Japan	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1321767	Republic of Korea	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI 2011004010	Malaysia	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2011-501724	Philippines	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2491788	Russian Federation	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1101002062	Thailand	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
I445429	Taiwan	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2011/07563	South Africa	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.213V1070-2013
8,503,316	United States	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
912/2011	United Arab Emirates	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2010226816	Australia	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI1009312-5	Brazil	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2753655	Canada	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
ZL201080011978.8	China P.R.	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
12108007.0	Hong Kong	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
10709667.9	European Patent Convention	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
W-00201103746	Indonesia	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
6316/CHENP/2011	India	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
5529252	Japan	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2014-084575	Japan	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013

10-1321767	Republic of Korea	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
PI 2011004010	Malaysia	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1-2011-501724	Philippines	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2491788	Russian Federation	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
1101002062	Thailand	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
I445429	Taiwan	Granted	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
2011/07563	South Africa	Pending	Method and apparatus for handling inconsistent control information in a wireless communication system	ATIS.3GPP.36.321V1080-2013
8,345,614	United States	Granted	Single channelization code HARQ feedback for DC-HSDPA+MIMO	T1.3GPP.25.212V3110-2003
099107934	Taiwan	Pending	Single channelization code HARQ feedback for DC-HSDPA+MIMO	T1.3GPP.25.212V3110-2003
8,416,706	United States	Granted	Apparatus and method for dual-cell high-speed uplink packet access	ATIS.3GPP.36.300V1090-2013
201080012206.6	China P.R.	Pending	Apparatus and method for dual-cell high-speed uplink packet access	ATIS.3GPP.36.300V1090-2013
12003875.7	European Patent Convention	Pending	DC-HSUPA adjuacent carriers	ATIS.3GPP.36.300V1090-2013
6578/CHENP/2011	India	Pending	Apparatus and method for dual-cell high-speed uplink packet access	ATIS.3GPP.36.300V1090-2013
5301027	Japan	Granted	Apparatus and method for dual-cell high-speed uplink packet access	ATIS.3GPP.36.300V1090-2013
10-1312472	Republic of Korea	Granted	Apparatus and method for dual-cell high-speed uplink packet access	ATIS.3GPP.36.300V1090-2013
099107940	Taiwan	Pending	Apparatus and method for dual-cell high-speed uplink packet access	ATIS.3GPP.36.300V1090-2013
8,416,706	United States	Granted	Apparatus and method for dual-cell high-speed uplink packet access	T1.3GPP.25.212V3110-2003
201080012206.6	China P.R.	Pending	Apparatus and method for dual-cell high-speed uplink packet access	T1.3GPP.25.212V3110-2003
12003875.7	European Patent Convention	Pending	DC-HSUPA adjuacent carriers	T1.3GPP.25.212V3110-2003
6578/CHENP/2011	India	Pending	Apparatus and method for dual-cell high-speed uplink packet access	T1.3GPP.25.212V3110-2003
5301027	Japan	Granted	Apparatus and method for dual-cell high-speed uplink packet access	T1.3GPP.25.212V3110-2003
10-1312472	Republic of Korea	Granted	Apparatus and method for dual-cell high-speed uplink packet access	T1.3GPP.25.212V3110-2003
099107940	Taiwan	Pending	Apparatus and method for dual-cell high-speed uplink packet access	T1.3GPP.25.212V3110-2003
12/772,902	United States	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
1106/2011	United Arab Emirates	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
PI1014106-5	Brazil	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
2759806	Canada	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
201080020155.1	China P.R.	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013

12108116.8	Hong Kong	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
10717417.9	European Patent Convention	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
W-00201104437	Indonesia	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
7842/CHENP/2011	India	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
5345731	Japan	Granted	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-168710	Japan	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
10-1443874	Republic of Korea	Granted	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
PI 20114948	Malaysia	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
1-2011-502134	Philippines	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
2509450	Russian Federation	Granted	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
099114302	Taiwan	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
2011/08355	South Africa	Pending	Method and apparatus for uplink power control in a multicarrier wireless communication system	ATIS.3GPP.36.213V1070-2013
8,831,555	United States	Granted	Reestablishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
201080015600.5	China P.R.	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
201410183279.1	China P.R.	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
14/479,794	United States	Pending	Reestablishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
14/479,890	United States	Pending	Reestablishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
10712291.3	European Patent Convention	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
7126/CHENP/2011	India	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
2012-503758	Japan	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
2014-115094	Japan	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
10-2011-7026140	Republic of Korea	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
102124026	Taiwan	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
102124027	Taiwan	Pending	Re-establishment procedure for an emergency call	ATIS.3GPP.36.304V1060-2013
12/756,281	United States	Pending	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013
201080015771.8	China P.R.	Pending	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013
10715031.0	European Patent Convention	Pending	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013
7185/CHENP/2011	India	Pending	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013
5536195	Japan	Granted	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013

2014-010606	Japan	Pending	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013
10-1412666	Republic of Korea	Granted	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013
10-2014-7007665	Republic of Korea	Pending	QOS mapping for relay nodes	ATIS.3GPP.36.300V1090-2013
8,532,056	United States	Granted	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
201080016312.1	China P.R.	Pending	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
201310636413.4	China P.R.	Pending	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
201310617022.8	China P.R.	Pending	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
14/023,164	United States	Pending	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
10716661.3	European Patent Convention	Pending	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
7351/CHENP/2011	India	Pending	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
5431571	Japan	Granted	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
10-1403985	Republic of Korea	Granted	Device mobility for split-cell relay networks	ATIS.3GPP.36.300V1090-2013
8,693,429	United States	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
PI1014788-8	Brazil	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
2754440	Canada	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
201080014587.1	China P.R.	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
12109074.6	Hong Kong	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
10730600.3	European Patent Convention	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
W-00201103976	Indonesia	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
215438	Israel	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
6362/CHENP/2011	India	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
5420752	Japan	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
10-1322347	Republic of Korea	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
10-1345723	Republic of Korea	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
PI 2011004331	Malaysia	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
1-2011-501760	Philippines	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013

2496243	Russian Federation	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
1101002263	Thailand	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
I427981	Taiwan	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
2011/07371	South Africa	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.211V1070-2013
8,693,429	United States	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
PI1014788-8	Brazil	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
2754440	Canada	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
201080014587.1	China P.R.	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
12109074.6	Hong Kong	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
10730600.3	European Patent Convention	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
W-00201103976	Indonesia	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
215438	Israel	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
6362/CHENP/2011	India	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
5420752	Japan	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
10-1322347	Republic of Korea	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
10-1345723	Republic of Korea	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
PI 2011004331	Malaysia	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
1-2011-501760	Philippines	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
2496243	Russian Federation	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
1101002263	Thailand	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013

I427981	Taiwan	Granted	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
2011/07371	South Africa	Pending	Methods and apparatus for generation and use of reference signals in a communications system	ATIS.3GPP.36.212V1070-2013
7,139,960	United States	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
7,451,377	United States	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
8,887,020	United States	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
ZL200480029083.1	China P.R.	Granted	A method of receiving data transmitted from a source over a communication channel	ATIS.3GPP.26.346V1140-2014
ZL201010161994.7	China P.R.	Granted	A method of receiving data transmitted from a source over a communication channel	ATIS.3GPP.26.346V1140-2014
HK1148876	Hong Kong	Granted	A method of receiving data transmitted from a source over a communication channel	ATIS.3GPP.26.346V1140-2014
EP1665539	Germany	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
EP1665539	European Patent Convention	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
13001787.4	European Patent Convention	Pending	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
EP1665539	France	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
EP1665539	Great Britain	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
1092293	Hong Kong	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
236877	India	Granted	Method of receiving data transmitted from a source over a communications channel	ATIS.3GPP.26.346V1140-2014

4773356	Japan	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
5415471	Japan	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
10-1183843	Republic of Korea	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
10-1170629	Republic of Korea	Granted	Error-correcting multi-stage code generator and decoder for communication systems having single transmitters or multiple transmitters	ATIS.3GPP.26.346V1140-2014
8,774,230	United States	Granted	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
PI1016047-7	Brazil	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
2757578	Canada	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
201080014529.9	China P.R.	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
12109073.7	Hong Kong	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
10716152.3	European Patent Convention	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
W-00201104094	Indonesia	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
7448/CHENP/2011	India	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
5579826	Japan	Granted	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
10-1423580	Republic of Korea	Granted	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
10-1376041	Republic of Korea	Granted	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
2510985	Russian Federation	Granted	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
1101002556	Thailand	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
099110942	Taiwan	Pending	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
2011/08159	South Africa	Granted	Conveying synchronization stratum information	ATIS.3GPP.36.413V1060-2013
12/756,847	United States	Pending	Method and apparatus for supporting user equipments on different system bandwidths	T1.3GPP.25.212V3110-2003
201080016636.5	China P.R.	Pending	Method and apparatus for supporting user equipments on different system bandwidths	T1.3GPP.25.212V3110-2003
10715025.2	European Patent Convention	Pending	Method and apparatus for supporting user equipments on different system bandwidths	T1.3GPP.25.212V3110-2003
7184/CHENP/2011	India	Pending	Method and apparatus for supporting user equipments on different system bandwidths	T1.3GPP.25.212V3110-2003
2012-504906	Japan	Pending	Method and apparatus for supporting user equipments on different system bandwidths	T1.3GPP.25.212V3110-2003
2014-146954	Japan	Pending	Method and apparatus for supporting user equipments on different system bandwidths	T1.3GPP.25.212V3110-2003
099111154	Taiwan	Pending	Method and apparatus for supporting user equipments on different system bandwidths	T1.3GPP.25.212V3110-2003

8,599,771	United States	Granted	Control of radio links in a multiple carrier system	ATIS.3GPP.36.212V1070-2013
201080016584.1	China P.R.	Pending	Control of radio links in a multiple carrier system	ATIS.3GPP.36.212V1070-2013
10715052.6	European Patent Convention	Pending	Control of radio links in a multiple carrier system	ATIS.3GPP.36.212V1070-2013
7243/CHENP/2011	India	Pending	Control of radio links in a multiple carrier system	ATIS.3GPP.36.212V1070-2013
5628290	Japan	Granted	Control of radio links in a multiple carrier system	ATIS.3GPP.36.212V1070-2013
10-1326635	Republic of Korea	Granted	Control of radio links in a multiple carrier system	ATIS.3GPP.36.212V1070-2013
8,599,701	United States	Granted	Systems, methods and devices to enable management of wireless network resources	ATIS.3GPP.23.060V1150-2014
P11014513-3	Brazil	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.23.060V1150-2014
201080016494.2	China P.R.	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.23.060V1150-2014
10716175.4	European Patent Convention	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.23.060V1150-2014
7328/CHENP/2011	India	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.23.060V1150-2014
2012-505983	Japan	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.23.060V1150-2014
2014-096150	Japan	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.23.060V1150-2014
10-2011-7027305	Republic of Korea	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.23.060V1150-2014
099112055	Taiwan	Pending	Systems, methods and devices to enable management of wireless network resources	ATIS.3GPP.23.060V1150-2014
8,599,701	United States	Granted	Systems, methods and devices to enable management of wireless network resources	ATIS.3GPP.36.300V1090-2013
P11014513-3	Brazil	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.36.300V1090-2013
201080016494.2	China P.R.	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.36.300V1090-2013
10716175.4	European Patent Convention	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.36.300V1090-2013
7328/CHENP/2011	India	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.36.300V1090-2013
2012-505983	Japan	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.36.300V1090-2013
2014-096150	Japan	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.36.300V1090-2013
10-2011-7027305	Republic of Korea	Pending	Method, apparatus and computer program product for determining QOS of communications based on CSG membership	ATIS.3GPP.36.300V1090-2013

099112055	Taiwan	Pending	Systems, methods and devices to enable management of wireless network resources	ATIS.3GPP.36.300V1090-2013
12/765,797	United States	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.212V1070-2013
201080017683.1	China P.R.	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.212V1070-2013
10716679.5	European Patent Convention	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.212V1070-2013
7124/CHENP/2011	India	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.212V1070-2013
5475108	Japan	Granted	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.212V1070-2013
10-1332762	Republic of Korea	Granted	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.212V1070-2013
099113054	Taiwan	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.212V1070-2013
12/765,797	United States	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.213V1070-2013
201080017683.1	China P.R.	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.213V1070-2013
10716679.5	European Patent Convention	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.213V1070-2013
7124/CHENP/2011	India	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.213V1070-2013
5475108	Japan	Granted	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.213V1070-2013
10-1332762	Republic of Korea	Granted	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.213V1070-2013
099113054	Taiwan	Pending	Rank and precoding indication for MIMO operation	ATIS.3GPP.36.213V1070-2013
12/765,816	United States	Pending	Rank and precoding indication for MIMO operation	T1.3GPP.25.211V3120-2003
201080017654.5	China P.R.	Pending	Rank and precoding indication for MIMO operation	T1.3GPP.25.211V3120-2003
10720481.0	European Patent Convention	Pending	Rank and precoding indication for MIMO operation	T1.3GPP.25.211V3120-2003
7241/CHENP/2011	India	Pending	Rank and precoding indication for MIMO operation	T1.3GPP.25.211V3120-2003
2012-507449	Japan	Pending	Rank and precoding indication for MIMO operation	T1.3GPP.25.211V3120-2003
10-1332249	Republic of Korea	Granted	Rank and precoding indication for MIMO operation	T1.3GPP.25.211V3120-2003
099113055	Taiwan	Pending	Rank and precoding indication for MIMO operation	T1.3GPP.25.211V3120-2003
12/764,871	United States	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
P1015148-6	Brazil	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
2758966	Canada	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
201080019006.3	China P.R.	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
12108115.9	Hong Kong	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
10717369.2	European Patent Convention	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
W-0020114300	Indonesia	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
7783/CHENP/2011	India	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
2012-507443	Japan	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013

10-1336865	Republic of Korea	Granted	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
308988	Mexico	Granted	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
PI 2011004894	Malaysia	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
1-2011-502102	Philippines	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
2495528	Russian Federation	Granted	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
1101002760	Thailand	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
099113074	Taiwan	Pending	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
2011/08354	South Africa	Granted	Method and apparatus for control and data multiplexing in a MIMO communication system	ATIS.3GPP.36.212V1070-2013
12/728,778	United States	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2010239580	Australia	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
PI1014415-3	Brazil	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2758341	Canada	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
201080017228.1	China P.R.	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
12109602.7	Hong Kong	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
10711313.6	European Patent Convention	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
W-00201104299	Indonesia	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
7413/CHENP/2011	India	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2012-507232	Japan	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2013-171726	Japan	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2014-210902	Japan	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014

10-1369357	Republic of Korea	Granted	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
10-2013-7025890	Republic of Korea	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
10-2013-7025892	Republic of Korea	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
1-2011-502061	Philippines	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2504114	Russian Federation	Granted	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2013120059	Russian Federation	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
1101002761	Thailand	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
099108576	Taiwan	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
1-2011-03145	Vietnam	Pending	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
2011/08583	South Africa	Granted	Establishing packet data network connectivity for local internet protocol access traffic	ATIS.3GPP.23.060V1150-2014
12/768,249	United States	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
1102/2011	United Arab Emirates	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
UNKNOWN	Brazil	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
201080019167.2	China P.R.	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
10717001.1	European Patent Convention	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
W-00201104425	Indonesia	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
8004/CHENP/2011	India	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
2012-508809	Japan	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
2013-264417	Japan	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
10-1437721	Republic of Korea	Granted	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013

2011148948	Russian Federation	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
1101002846	Thailand	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
099113950	Taiwan	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
2011/08722	South Africa	Pending	Systems, apparatus and methods for facilitating emergency call service in wireless communication systems	ATIS.3GPP.36.304V1060-2013
12/770,453	United States	Pending	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
PI1014620-2	Brazil	Pending	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
201080019101.3	China P.R.	Pending	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
10721872.9	European Patent Convention	Pending	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
7612/CHENP/2011	India	Pending	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
5384726	Japan	Granted	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
2013-122682	Japan	Pending	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
10-1350339	Republic of Korea	Granted	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
I420923	Taiwan	Granted	Transmission and detection of overhead channels and signals in a wireless network	ATIS.3GPP.36.355V1080-2013
12/770,506	United States	Pending	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
PI1015353-5	Brazil	Pending	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
ZL201080019539.1	China P.R.	Granted	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
10721580.8	European Patent Convention	Pending	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
7834/CHENP/2011	India	Pending	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
5539497	Japan	Granted	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
2014-033252	Japan	Pending	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
10-1350854	Republic of Korea	Granted	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
10-2013-7016694	Republic of Korea	Pending	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
I415499	Taiwan	Granted	PDCCH search space design for LTE-A multi-carrier operation	ATIS.3GPP.36.213V1070-2013
8,767,846	United States	Granted	Joint layer 3 signalling coding for multicarrier operation	ATIS.3GPP.36.331V1090-2013
099113994	Taiwan	Pending	Joint layer 3 signalling coding for a multicarrier operation	ATIS.3GPP.36.331V1090-2013
12/772,918	United States	Pending	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
201080020161.7	China P.R.	Pending	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
10717418.7	European Patent Convention	Pending	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013

7447/CHENP/2011	India	Pending	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
5420758	Japan	Granted	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
10-2011-7029088	Republic of Korea	Pending	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
10-2013-7031665	Republic of Korea	Pending	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
099114281	Taiwan	Pending	Semi-persistent scheduling for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
12/771,706	United States	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
PI1014110-3	Brazil	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
201080020163.6	China P.R.	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
10717983.0	European Patent Convention	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
7409/CHENP/2011	India	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
2012-509924	Japan	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
2014-209126	Japan	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
10-1408822	Republic of Korea	Granted	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
10-2013-7027412	Republic of Korea	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
1446804	Taiwan	Granted	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
102122202	Taiwan	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
12/771,721	United States	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
PI1014618-0	Brazil	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
201080019760.7	China P.R.	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
10717984.8	European Patent Convention	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
7459/CHENP/2011	India	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
2012-509925	Japan	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
2014-162966	Japan	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
10-1433806	Republic of Korea	Granted	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
10-2013-7020118	Republic of Korea	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
099114272	Taiwan	Pending	Access mode-based access control	ATIS.3GPP.23.060V1150-2014
12/771,721	United States	Pending	Access mode-based access control	ATIS.3GPP.36.300V1090-2013
PI1014618-0	Brazil	Pending	Access mode-based access control	ATIS.3GPP.36.300V1090-2013
201080019760.7	China P.R.	Pending	Access mode-based access control	ATIS.3GPP.36.300V1090-2013
10717984.8	European Patent Convention	Pending	Access mode-based access control	ATIS.3GPP.36.300V1090-2013
7459/CHENP/2011	India	Pending	Access mode-based access control	ATIS.3GPP.36.300V1090-2013
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10-2013-7020118	Republic of Korea	Pending	Access mode-based access control	ATIS.3GPP.36.300V1090-2013
099114272	Taiwan	Pending	Access mode-based access control	ATIS.3GPP.36.300V1090-2013
12/771,721	United States	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
PI1014618-0	Brazil	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
201080019760.7	China P.R.	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
10717984.8	European Patent Convention	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
7459/CHENP/2011	India	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013

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10-1433806	Republic of Korea	Granted	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
10-2013-7020118	Republic of Korea	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
099114272	Taiwan	Pending	Access mode-based access control	ATIS.3GPP.36.413V1060-2013
8,885,479	United States	Granted	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
PI1011448-3	Brazil	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2758576	Canada	Granted	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2834141	Canada	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2834139	Canada	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
201080019445.4	China P.R.	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
12109605.4	Hong Kong	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
10718392.3	European Patent Convention	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
W-002011104489	Indonesia	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
7460/CHENP/2011	India	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
5599872	Japan	Granted	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2013-114048	Japan	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
10-1389084	Republic of Korea	Granted	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
10-2013-7006072	Republic of Korea	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
10-2013-7006075	Republic of Korea	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
PI 2011004842	Malaysia	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
1-2011-502094	Philippines	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2502231	Russian Federation	Granted	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2013142233	Russian Federation	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2013142232	Russian Federation	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
1101002962	Thailand	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
99114712	Taiwan	Pending	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
2011/08265	South Africa	Granted	Multicarrier retransmission feedback	ATIS.3GPP.36.213V1070-2013
12/774,538	United States	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
201080019920.8	China P.R.	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
10718022.6	European Patent Convention	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
12193268.5	European Patent Convention	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
8045/CHENP/2011	India	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
2012-510034	Japan	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
2014-109028	Japan	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
10-1374730	Republic of Korea	Granted	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
10-2013-7029750	Republic of Korea	Pending	Paging for local IP access packets	ATIS.3GPP.23.060V1150-2014
12/774,410	United States	Pending	Method and apparatus for assisted positioning in a wireless communication system	ATIS.3GPP.36.355V1080-2013
12/774,410	United States	Pending	Method and apparatus for assisted positioning in a wireless communication system	ATIS.3GPP.36.455V1040-2013

8,433,251	United States	Granted	Control information signaling	ATIS.3GPP.36.213V1070-2013
BR1120120069985	Brazil	Pending	Control information signaling	ATIS.3GPP.36.213V1070-2013
201080043050.8	China P.R.	Pending	Control information signaling	ATIS.3GPP.36.213V1070-2013
10768318.7	European Patent Convention	Pending	Control information signaling	ATIS.3GPP.36.213V1070-2013
2396/CHENP/2012	India	Pending	Control information signaling	ATIS.3GPP.36.213V1070-2013
5635107	Japan	Granted	Control information signaling	ATIS.3GPP.36.213V1070-2013
10-1422221	Republic of Korea	Granted	Control information signaling	ATIS.3GPP.36.213V1070-2013
1455552	Taiwan	Granted	Control information signaling	ATIS.3GPP.36.213V1070-2013
8,855,062	United States	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Austria	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Belgium	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
PI1011281-2	Brazil	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
2761222	Canada	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Switzerland	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
201080022933.0	China P.R.	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
12111330.2	Hong Kong	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Germany	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Denmark	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	European Patent Convention	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Spain	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Finland	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	France	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Great Britain	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Greece	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Hungary	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
W-00201104791	Indonesia	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Ireland	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
8220/CHENP/2011	India	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Italy	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
5485381	Japan	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
10-1432210	Republic of Korea	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Netherlands	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Norway	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
1-2011-5022291	Philippines	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Poland	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Portugal	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Romania	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
2011153796	Russian Federation	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
EP2436135	Sweden	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
099117263	Taiwan	Pending	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
100826	Ukraine	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013

2011/08272	South Africa	Granted	Dynamic selection of subframe formats in a wireless network	ATIS.3GPP.36.213V1070-2013
12/791,746	United States	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
1207/2011	United Arab Emirates	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
2010256700	Australia	Granted	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
PI1011636-2	Brazil	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
2762320	Canada	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
ZL201080024218.0	China P.R.	Granted	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
12111329.5	Hong Kong	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
10728474.7	European Patent Convention	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
W-0020120002	Indonesia	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
216324	Israel	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
2436/MUMNP/2011	India	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
2012-514088	Japan	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
10-1364882	Republic of Korea	Granted	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
1-2011-502459	Philippines	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
2504092	Russian Federation	Granted	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
099117805	Taiwan	Pending	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
2011/08726	South Africa	Granted	Downlink assignment indicator design for multi-carrier wireless communication	ATIS.3GPP.36.213V1070-2013
12/796,556	United States	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
201080025962.2	China P.R.	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
10731635.8	European Patent Convention	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013

12191950.0	European Patent Convention	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
9073/CHENP/2011	India	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
2012-515108	Japan	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
5612176	Japan	Granted	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
10-1390919	Republic of Korea	Granted	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
10-2014-7006675	Republic of Korea	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
099118791	Taiwan	Pending	Method and apparatus for facilitating radio link monitoring and recovery	ATIS.3GPP.36.331V1090-2013
12/813,409	United States	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI1012894-8	Brazil	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
201080026389.7	China P.R.	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10737683.2	European Patent Convention	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
9286/CHENP/2011	India	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2012-515197	Japan	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2014-096369	Japan	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10-2012-7000860	Republic of Korea	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
099119165	Taiwan	Pending	Data prioritization for a power-limited UE in a wireless communication system	ATIS.3GPP.36.213V1070-2013
12/813,451	United States	Pending	Method and apparatus for dispatching a channel quality indicator feedback for multicarrier system	ATIS.3GPP.36.213V1070-2013
1257/2011	United Arab Emirates	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
PI1013148-5	Brazil	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
2763796	Canada	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013

201080026368.5	China P.R.	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
13104071.9	Hong Kong	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
10737684.0	European Patent Convention	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
W-00201200124	Indonesia	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
216490	Israel	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
9164/CHENP/2011	India	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
2013-189906	Japan	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
10-2012-7000863	Republic of Korea	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
10-2013-7034601	Republic of Korea	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
10-2013-7034604	Republic of Korea	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
10-2013-7034606	Republic of Korea	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
PI 2011005647	Malaysia	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
1-2011-502535	Philippines	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
2522294	Russian Federation	Granted	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
099119232	Taiwan	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system	ATIS.3GPP.36.213V1070-2013
2011/09280	South Africa	Pending	A method and apparatus for dispatching a channel quality indicator feedback in multicarrier system using an anchor carrier scheme	ATIS.3GPP.36.213V1070-2013
12/819,745	United States	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
201080035282.9	China P.R.	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
10740443.6	European Patent Convention	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
9402/CHENP/2011	India	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
2012-517655	Japan	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
2013-267753	Japan	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
10-2014-7014999	Republic of Korea	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
099120311	Taiwan	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.36.331V1090-2013
12/819,745	United States	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013

201080035282.9	China P.R.	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013
10740443.6	European Patent Convention	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013
9402/CHENP/2011	India	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013
2012-517655	Japan	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013
2013-267753	Japan	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013
10-2014-7014999	Republic of Korea	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013
099120311	Taiwan	Pending	Method and apparatus for network optimization using SON solutions	ATIS.3GPP.37.320V1040-2013
8,670,432	United States	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
1316/2011	United Arab Emirates	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
1014/2013	United Arab Emirates	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
PI1013294-5	Brazil	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
BR1220130276947	Brazil	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2766144	Canada	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2832015	Canada	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2832002	Canada	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2832020	Canada	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
201080037076.1	China P.R.	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
201310625473.6	China P.R.	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
14107285.3	Hong Kong	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
201410150513.0	China P.R.	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
201410150318.8	China P.R.	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
201410150776.1	China P.R.	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
12110608.9	Hong Kong	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
13/942,928	United States	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013

13/942,941	United States	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
13/942,967	United States	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
10740446.9	European Patent Convention	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
13020110.6	European Patent Convention	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
W-00201200261	Indonesia	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
P-00201400972	Indonesia	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
P-00201400970	Indonesia	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
P-00201400971	Indonesia	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
147/CHENP/2012	India	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
8576/CHENP/2013	India	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2012-517660	Japan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013-164460	Japan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013-210540	Japan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013-164461	Japan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013-164462	Japan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
10-1358202	Republic of Korea	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
10-1331153	Republic of Korea	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
10-1407679	Republic of Korea	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
10-1331151	Republic of Korea	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
10-1331149	Republic of Korea	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013

317136	Mexico	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
PI 2011006211	Malaysia	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
PI 2013003450	Malaysia	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
1-2011502668	Philippines	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
1-2013-502085	Philippines	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
1-2014-500741	Philippines	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
1-2014-500742	Philippines	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2516320	Russian Federation	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013141149	Russian Federation	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013141145	Russian Federation	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013141147	Russian Federation	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2013146465	Russian Federation	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
1101003765	Thailand	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
I426758	Taiwan	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
102139985	Taiwan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
102139986	Taiwan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
102139987	Taiwan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
102141341	Taiwan	Pending	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
2012/00452	South Africa	Granted	Methods and apparatus for coordination of sending reference signals from multiple cells	ATIS.3GPP.36.423V1050-2013
8,634,313	United States	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013

PI1015002-1	Brazil	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
2765404	Canada	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
ZL201080026835.4	China P.R.	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
12111561.2	Hong Kong	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
10730633.4	European Patent Convention	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
W-00201200231	Indonesia	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
9381/CHENP/2011	India	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
5362911	Japan	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
10-1352332	Republic of Korea	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
319109	Mexico	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
1-2011-502591	Philippines	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
2521964	Russian Federation	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
176705	Singapore	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
1101003718	Thailand	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
I425852	Taiwan	Granted	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
2012/00130	South Africa	Pending	Method and apparatus that facilitates a timing alignment in a multicarrier system	ATIS.3GPP.36.213V1070-2013
12/817,083	United States	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
PI1015026-9	Brazil	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
2764057	Canada	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
201080027237.9	China P.R.	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013

12111564.9	Hong Kong	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
10740438.6	European Patent Convention	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
W-00201200232	Indonesia	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
9238/CHENP/2011	India	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
5502994	Japan	Granted	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
2013-189903	Japan	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
10-1430599	Republic of Korea	Granted	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
10-1410390	Republic of Korea	Granted	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
1-2011-502484	Philippines	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
2504120	Russian Federation	Granted	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
2013128863	Russian Federation	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
1101003720	Thailand	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
1423698	Taiwan	Granted	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
102130614	Taiwan	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
2011/09504	South Africa	Pending	Method and apparatus that facilitates measurement procedures in multicarrier operation	ATIS.3GPP.36.331V1090-2013
8,605,584	United States	Granted	Transmission of control information across multiple packets	ATIS.3GPP.36.300V1090-2013
201080029253.1	China P.R.	Pending	Transmission of control information across multiple packets	ATIS.3GPP.36.300V1090-2013
10733079.7	European Patent Convention	Pending	Transmission of control information across multiple packets	ATIS.3GPP.36.300V1090-2013
9919/CHENP/2011	India	Pending	Transmission of control information across multiple packets	ATIS.3GPP.36.300V1090-2013
2012-517922	Japan	Pending	Transmission of control information across multiple packets	ATIS.3GPP.36.300V1090-2013
10-1450276	Republic of Korea	Granted	Transmission of control information across multiple packets	ATIS.3GPP.36.300V1090-2013
099121927	Taiwan	Pending	Transmission of control information across multiple packets	ATIS.3GPP.36.300V1090-2013
12/840,131	United States	Pending	Hybrid automatic repeat request operation and decoding status signaling for uplink multiple-input multiple-output	ATIS.3GPP.36.213V1070-2013
201080041783.8	China P.R.	Pending	Hybrid automatic repeat request operation and decoding status signaling for uplink multiple-input multiple-output	ATIS.3GPP.36.213V1070-2013

10742952.4	European Patent Convention	Pending	Hybrid automatic repeat request operation and decoding status signaling for uplink multiple-input multiple-output	ATIS.3GPP.36.213V1070-2013
789/CHENP/2012	India	Pending	Hybrid automatic repeat request operation and decoding status signaling for uplink multiple-input multiple-output	ATIS.3GPP.36.213V1070-2013
5507685	Japan	Granted	Hybrid automatic repeat request operation and decoding status signaling for uplink multiple-input multiple-output	ATIS.3GPP.36.213V1070-2013
10-1354067	Republic of Korea	Granted	Hybrid automatic repeat request operation and decoding status signaling for uplink multiple-input multiple-output	ATIS.3GPP.36.213V1070-2013
099125491	Taiwan	Pending	Hybrid automatic repeat request operation and decoding status signaling for uplink multiple-input multiple-output	ATIS.3GPP.36.213V1070-2013
8,861,424	United States	Granted	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
14/512,996	United States	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
201080035260.2	China P.R.	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
10736892.0	European Patent Convention	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
26/MUMNP/2012	India	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
2012-519678	Japan	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
2014-130727	Japan	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
10-1447153	Republic of Korea	Granted	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
10-2013-7024399	Republic of Korea	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
099122202	Taiwan	Pending	Downlink control channel for relay resource allocation	ATIS.3GPP.36.216V1031-2013
8,891,480	United States	Granted	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
201080029151.X	China P.R.	Pending	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
10732797.5	European Patent Convention	Pending	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
2813/MUMNP/2011	India	Pending	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
2012-517912	Japan	Pending	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
2014-152377	Japan	Pending	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
10-2012-7002858	Republic of Korea	Pending	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
1422852	Taiwan	Granted	Positioning reference signals in a telecommunication system	ATIS.3GPP.36.211V1070-2013
12/825,179	United States	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
201080032879.8	China P.R.	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
10730675.5	European Patent Convention	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
12/MUMNP/2012	India	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
5619887	Japan	Granted	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
2014-121786	Japan	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
10-2010-7002882	Republic of Korea	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
10-2014-7000657	Republic of Korea	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
099121932	Taiwan	Pending	Method and apparatus for communicating antenna port assignments	ATIS.3GPP.36.212V1070-2013
12/834,219	United States	Granted	Low reuse preamble	ATIS.3GPP.36.211V1070-2013
BR1120120002511	Brazil	Pending	Low reuse preamble	ATIS.3GPP.36.211V1070-2013
201080031567.5	China P.R.	Pending	Low reuse preamble	ATIS.3GPP.36.211V1070-2013
10733131.6	European Patent Convention	Pending	Low reuse preamble	ATIS.3GPP.36.211V1070-2013

29/MUMNP/2012	India	Pending	Low reuse preamble	ATIS.3GPP.36.211V1070-2013
2012-520753	Japan	Pending	Low reuse preamble	ATIS.3GPP.36.211V1070-2013
10-1450270	Republic of Korea	Granted	Low reuse preamble	ATIS.3GPP.36.211V1070-2013
099123319	Taiwan	Pending	Low reuse preamble	ATIS.3GPP.36.211V1070-2013
8,885,541	United States	Granted	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
109/2012	United Arab Emirates	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
2010279424	Australia	Granted	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
BR1120120025643	Brazil	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
2769757	Canada	Granted	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
201080034333.6	China P.R.	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
12111888.8	Hong Kong	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
10745493.6	European Patent Convention	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
W-00201200808	Indonesia	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
268/MUMNP/2012	India	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
2012-523740	Japan	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
10-1403637	Republic of Korea	Granted	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
2524392	Russian Federation	Granted	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
I413437	Taiwan	Granted	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
1-2012-00562	Vietnam	Pending	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
2012/01602	South Africa	Granted	Extension of UE-RS to DwPTS	ATIS.3GPP.36.211V1070-2013
12/841,051	United States	Pending	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
201080032756.4	China P.R.	Pending	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
EP2457407	Germany	Granted	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
EP2528399	Germany	Granted	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
EP2457407	European Patent Convention	Granted	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
12181664.9	European Patent Convention	Pending	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
EP2528399	European Patent Convention	Granted	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
EP2457407	Great Britain	Granted	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
EP2528399	Great Britain	Granted	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
117/CHENP/2012	India	Pending	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
5475128	Japan	Granted	Synchronization of devices in a wireless communication network	ATIS.3GPP.36.133V10100-2013
12/843,207	United States	Pending	Determining control region parameters for multiple transmission points	ATIS.3GPP.36.213V1070-2013
201080033651.0	China P.R.	Pending	Determining control region parameters for multiple transmission points	ATIS.3GPP.36.213V1070-2013
10747096.5	European Patent Convention	Pending	Determining control region parameters for multiple transmission points	ATIS.3GPP.36.213V1070-2013
597/CHENP/2012	India	Pending	Determining control region parameters for multiple transmission points	ATIS.3GPP.36.213V1070-2013
5453531	Japan	Granted	Determining control region parameters for multiple transmission points	ATIS.3GPP.36.213V1070-2013

12/842,752	United States	Pending	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
BR1120120018442	Brazil	Pending	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
201080033599.9	China P.R.	Pending	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
10745042.1	European Patent Convention	Pending	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
935/CHENP/2012	India	Pending	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
5607159	Japan	Granted	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
10-1408818	Republic of Korea	Granted	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
I435557	Taiwan	Granted	Adaptive transmissions in coordinated multiple point communications	ATIS.3GPP.36.213V1070-2013
8,811,253	United States	Granted	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
14/294,687	United States	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
201080035002.4	China P.R.	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
10747746.5	European Patent Convention	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
1062/CHENP/2012	India	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
2012-524893	Japan	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
2014-018804	Japan	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
10-2012-7006469	Republic of Korea	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.300V1090-2013
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201080035002.4	China P.R.	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.331V1090-2013
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1062/CHENP/2012	India	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.331V1090-2013
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2014-018804	Japan	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.331V1090-2013
10-2012-7006469	Republic of Korea	Pending	Resource specification for broadcast/multicast services	ATIS.3GPP.36.331V1090-2013
12/840,162	United States	Pending	Physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
BR1120120021494	Brazil	Pending	Method and apparatus for physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
201080044499.6	China P.R.	Pending	Method and apparatus for physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
10757652.2	European Patent Convention	Pending	Method and apparatus for physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013

929/CHENP/2012	India	Pending	Method and apparatus for physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
5591927	Japan	Granted	Method and apparatus for physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
2013-261798	Japan	Pending	Method and apparatus for physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
10-2012-7005531	Republic of Korea	Pending	Method and apparatus for physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
099125495	Taiwan	Pending	Physical uplink control channel (PUCCH) resource mapping with transmit diversity	ATIS.3GPP.36.213V1070-2013
8,462,741	United States	Granted	Uplink power control for multiple transmit antennas	ATIS.3GPP.36.213V1070-2013
201080034288.4	China P.R.	Pending	Method and apparatus for uplink power control for multiple transmit antennas	ATIS.3GPP.36.213V1070-2013
10740491.5	European Patent Convention	Pending	Method and apparatus for uplink power control for multiple transmit antennas	ATIS.3GPP.36.213V1070-2013
337/MUMNP/2012	India	Pending	Method and apparatus for uplink power control for multiple transmit antennas	ATIS.3GPP.36.213V1070-2013
5485394	Japan	Granted	Method and apparatus for uplink power control for multiple transmit antennas	ATIS.3GPP.36.213V1070-2013
10-1376203	Republic of Korea	Granted	Method and apparatus for uplink power control for multiple transmit antennas	ATIS.3GPP.36.213V1070-2013
8,867,436	United States	Granted	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
201080033684.5	China P.R.	Pending	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
10743292.4	European Patent Convention	Pending	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
115/CHENP/2012	India	Pending	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
2012-523114	Japan	Pending	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
2014-125701	Japan	Pending	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
2014-241521	Japan	Pending	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
10-1423199	Republic of Korea	Granted	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
099125470	Taiwan	Pending	Support for optional system parameter values	ATIS.3GPP.36.331V1090-2013
12/854,431	United States	Pending	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user mimo (MU-MIMO)	ATIS.3GPP.36.212V1070-2013
BR1120120030620	Brazil	Pending	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user mimo (MU-MIMO)	ATIS.3GPP.36.212V1070-2013
201080035176.0	China P.R.	Pending	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user MIMO (MU-MIMO)	ATIS.3GPP.36.212V1070-2013
10747744.0	European Patent Convention	Pending	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user mimo (MU-MIMO)	ATIS.3GPP.36.212V1070-2013
1217/CHENP/2012	India	Pending	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user mimo (MU-MIMO)	ATIS.3GPP.36.212V1070-2013

5635096	Japan	Granted	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user mimo (MU-MIMO)	ATIS.3GPP.36.212V1070-2013
10-1418501	Republic of Korea	Granted	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user mimo (MU-MIMO)	ATIS.3GPP.36.212V1070-2013
I446741	Taiwan	Granted	Method and apparatus for supporting single-user multiple-input multiple-output (SU-MIMO) and multi-user mimo (MU-MIMO)	ATIS.3GPP.36.212V1070-2013
12/853,164	United States	Pending	Method and apparatus for handling policy and charging control rule or quality of service rule modification failures	ATIS.3GPP.29.212V1180-2014
201080035142.1	China P.R.	Pending	Method and apparatus for handling policy and charging control rule or quality of service rule modification failures	ATIS.3GPP.29.212V1180-2014
10747110.4	European Patent Convention	Pending	Method and apparatus for handling policy and charging control rule or quality of service rule modification failures	ATIS.3GPP.29.212V1180-2014
934/CHENP/2012	India	Pending	Method and apparatus for handling policy and charging control rule or quality of service rule modification failures	ATIS.3GPP.29.212V1180-2014
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2014-138987	Japan	Pending	Method and apparatus for handling policy and charging control rule or quality of service rule modification failures	ATIS.3GPP.29.212V1180-2014
10-1407017	Republic of Korea	Granted	Method and apparatus for handling policy and charging control rule or quality of service rule modification failures	ATIS.3GPP.29.212V1180-2014
099126652	Taiwan	Pending	Method and apparatus for handling policy and charging control rule or quality of service rule modification failures	ATIS.3GPP.29.212V1180-2014
12/853,071	United States	Pending	MIMO related signaling in wireless communication	ATIS.3GPP.36.212V1070-2013
BR1120120035860	Brazil	Pending	MIMO related signaling in wireless communication	ATIS.3GPP.36.212V1070-2013
201080036289.2	China P.R.	Pending	MIMO related signaling in wireless communication	ATIS.3GPP.36.212V1070-2013
10748004.8	European Patent Convention	Pending	MIMO related signaling in wireless communication	ATIS.3GPP.36.212V1070-2013
1280/CHENP/2012	India	Pending	MIMO related signaling in wireless communication	ATIS.3GPP.36.212V1070-2013
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10-1325677	Republic of Korea	Granted	MIMO related signaling in wireless communication	ATIS.3GPP.36.212V1070-2013
099127481	Taiwan	Pending	MIMO related signaling in wireless communication	ATIS.3GPP.36.212V1070-2013
12/877,694	United States	Pending	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.212V1070-2013
237/2012	United Arab Emirates	Pending	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.212V1070-2013
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10791002.8	European Patent Convention	Pending	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.212V1070-2013
W-00201201374	Indonesia	Pending	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.212V1070-2013
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5623534	Japan	Granted	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.212V1070-2013
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10-2014-7002110	Republic of Korea	Pending	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.212V1070-2013
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099130701	Taiwan	Pending	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.212V1070-2013
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2012/02470	South Africa	Pending	Multiple carrier indication and downlink control information interaction	ATIS.3GPP.36.213V1070-2013
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299/2012	United Arab Emirates	Pending	Enhanced block-request streaming system using signaling or block creation	ATIS.3GPP.26.247V1120-2014
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296/2012	United Arab Emirates	Pending	Enhanced block-request streaming using URL templates and construction rules	ATIS.3GPP.26.247V1120-2014
2010298321	Australia	Granted	Enhanced block-request streaming using URL templates and construction rules	ATIS.3GPP.26.247V1120-2014
BR1120120063715	Brazil	Pending	Enhanced block-request streaming using URL templates and construction rules	ATIS.3GPP.26.247V1120-2014
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12111572.9	Hong Kong	Pending	Enhanced block-request streaming using URL templates and construction rules	ATIS.3GPP.26.247V1120-2014
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W-00201201516	Indonesia	Pending	Enhanced block-request streaming using URL templates and construction rules	ATIS.3GPP.26.247V1120-2014
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1-2012-500587	Philippines	Pending	Enhanced block-request streaming using URL templates and construction rules	ATIS.3GPP.26.247V1120-2014
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099132232	Taiwan	Pending	Enhanced block-request streaming using URL templates and construction rules	ATIS.3GPP.26.247V1120-2014
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12/882,090	United States	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.213V1070-2013
BR1120120058924	Brazil	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.213V1070-2013
14/169,142	United States	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.213V1070-2013

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12/882,090	United States	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
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13000903.8	European Patent Convention	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
13000904.6	European Patent Convention	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
W-00201201420	Indonesia	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
218515	Israel	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
2556/CHENP/2012	India	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
2012-529886	Japan	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
10-1425126	Republic of Korea	Granted	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
1-2012-500492	Philippines	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
2516237	Russian Federation	Granted	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
1201001097	Thailand	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013

I435638	Taiwan	Granted	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
1-2012-01031	Vietnam	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
2012/02563	South Africa	Pending	Methods and apparatus for subframe interlacing in heterogeneous networks	ATIS.3GPP.36.331V1090-2013
8,638,682	United States	Granted	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
BR1120120075438	Brazil	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
201080043588.9	China P.R.	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
14/165,498	United States	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
10766431.0	European Patent Convention	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
12007937.1	European Patent Convention	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
3152/CHENP/2012	India	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
5442872	Japan	Granted	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
10-1395207	Republic of Korea	Granted	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
10-2013-7023799	Republic of Korea	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
10-2014-7009859	Republic of Korea	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
099133609	Taiwan	Pending	Method and apparatus for conducting measurements when multiple carriers are supported	ATIS.3GPP.36.306V1090-2013
8,670,396	United States	Granted	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
BR1120120069977	Brazil	Pending	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
201080043291.2	China P.R.	Pending	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
10768325.2	European Patent Convention	Pending	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
2383/CHENP/2012	India	Pending	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
2012-532282	Japan	Pending	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
10-1397653	Republic of Korea	Granted	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
I441468	Taiwan	Granted	Uplink control channel resource allocation for transmit diversity	ATIS.3GPP.36.213V1070-2013
12/890,182	United States	Pending	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013
BR1120120071300	Brazil	Pending	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013
201080043576.6	China P.R.	Pending	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013

10766426.0	European Patent Convention	Pending	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013
2570/CHENP/2012	India	Pending	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013
2012-532315	Japan	Pending	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013
10-1446325	Republic of Korea	Granted	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013
I426722	Taiwan	Granted	UE-RS sequence initialization for wireless communication systems	ATIS.3GPP.36.211V1070-2013
8,867,494	United States	Granted	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
484/2012	United Arab Emirates	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
BR1120120107658	Brazil	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
2778642	Canada	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
201080050605.1	China P.R.	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
12111840.5	Hong Kong	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
10782098.7	European Patent Convention	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
W-00201202123	Indonesia	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
3969/CHENP/2012	India	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
5629780	Japan	Granted	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
10-2012-7014692	Republic of Korea	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
10-2014-7009697	Republic of Korea	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
PI 2012001931	Malaysia	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
1-2012-500861	Philippines	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
2527209	Russian Federation	Granted	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
1201002132	Thailand	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
099138559	Taiwan	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003
2012/04232	South Africa	Granted	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.212V3110-2003

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484/2012	United Arab Emirates	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
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2778642	Canada	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
201080050605.1	China P.R.	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
12111840.5	Hong Kong	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
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PI 2012001931	Malaysia	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
1-2012-500861	Philippines	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
2527209	Russian Federation	Granted	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
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099138559	Taiwan	Pending	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
2012/04232	South Africa	Granted	System and method for single frequency dual cell high speed downlink packet access	T1.3GPP.25.214V3120-2004
12/898,458	United States	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
201080044892.5	China P.R.	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
EP2486755	Germany	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
EP2486755	European Patent Convention	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
EP2486755	Spain	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013

EP2486755	France	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
EP2486755	Great Britain	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
2616/CHENP/2012	India	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
EP2486755	Italy	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
2012-533294	Japan	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
2014-141733	Japan	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
10-1420243	Republic of Korea	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
EP2486755	Netherlands	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
I416971	Taiwan	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.211V1070-2013
12/898,458	United States	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.213V1070-2013
201080044892.5	China P.R.	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.213V1070-2013
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EP2486755	Great Britain	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.213V1070-2013
2616/CHENP/2012	India	Pending	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.213V1070-2013
EP2486755	Italy	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.213V1070-2013
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10-1420243	Republic of Korea	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.213V1070-2013
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I416971	Taiwan	Granted	MBSFN subframe generation and processing for unicast	ATIS.3GPP.36.213V1070-2013
8,379,536	United States	Granted	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
13/739,642	United States	Pending	Downlink control information format design for wireless communication	ATIS.3GPP.36.212V1070-2013
201080045111.4	China P.R.	Pending	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
10766467.4	European Patent Convention	Pending	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
2741/CHENP/2012	India	Pending	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
5599890	Japan	Granted	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
10-2012-7011923	Republic of Korea	Pending	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
10-2014-7022978	Republic of Korea	Pending	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
I419534	Taiwan	Granted	Downlink control information for efficient decoding	ATIS.3GPP.36.212V1070-2013
8,902,828	United States	Granted	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
BR1120120076892	Brazil	Pending	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
14/528,105	United States	Pending	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
201080045714.4	China P.R.	Pending	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
10766435.1	European Patent Convention	Pending	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
2444/CHENP/2012	India	Pending	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
5497187	Japan	Granted	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
10-1407030	Republic of Korea	Granted	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013

I445376	Taiwan	Granted	Carrier indicator field for cross carrier assignments	ATIS.3GPP.36.331V1090-2013
8,767,797	United States	Granted	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
358/2012	United Arab Emirates	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
BR1120120076868	Brazil	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
2776691	Canada	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
201080044663.3	China P.R.	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
13100241.2	Hong Kong	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
10770668.1	European Patent Convention	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
W-00201201758	Indonesia	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
3257/CHENP/2012	India	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
5568640	Japan	Granted	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
10-1354567	Republic of Korea	Granted	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
PI 2012001498	Malaysia	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
1-2012-500681	Philippines	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
2510578	Russian Federation	Granted	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
201202394-1	Singapore	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
1201001536	Thailand	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
099133910	Taiwan	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
1-2012-01255	Vietnam	Pending	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
2012/03263	South Africa	Granted	Apparatus and method for providing HARQ feedback in a multi-carrier wireless communication system	T1.3GPP.25.212V3110-2003
12/899,448	United States	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013

BR1120120078240	Brazil	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
201080045101.0	China P.R.	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
10766468.2	European Patent Convention	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
2765/CHENP/2012	India	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
2012-533371	Japan	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
2014-211801	Japan	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
10-1433286	Republic of Korea	Granted	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
099134524	Taiwan	Pending	Method and apparatus for using channel state information reference signal in wireless communication system	ATIS.3GPP.36.211V1070-2013
12/900,194	United States	Pending	Uplink resource allocation for LTE advanced	ATIS.3GPP.36.212V1070-2013
201080045113.3	China P.R.	Pending	Uplink resource allocation for LTE advanced	ATIS.3GPP.36.212V1070-2013
10766461.7	European Patent Convention	Pending	Uplink resource allocation for LTE advanced	ATIS.3GPP.36.212V1070-2013
3394/CHENP/2012	India	Pending	Uplink resource allocation for LTE advanced	ATIS.3GPP.36.212V1070-2013
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2014-211794	Japan	Pending	Uplink resource allocation for LTE advanced	ATIS.3GPP.36.212V1070-2013
10-1381855	Republic of Korea	Granted	Uplink resource allocation for LTE advanced	ATIS.3GPP.36.212V1070-2013
099134440	Taiwan	Pending	Uplink resource allocation for LTE advanced	ATIS.3GPP.36.212V1070-2013
12/903,659	United States	Pending	Method and apparatus for reference signal sequence mapping in wireless communication	ATIS.3GPP.36.211V1070-2013
201080045846.7	China P.R.	Pending	Method and apparatus for reference signal resource allocation	ATIS.3GPP.36.211V1070-2013
10770685.5	European Patent Convention	Pending	Method and apparatus for reference signal resource allocation	ATIS.3GPP.36.211V1070-2013
2887/CHENP/2012	India	Pending	Method and apparatus for reference signal resource allocation	ATIS.3GPP.36.211V1070-2013
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10-1380874	Republic of Korea	Granted	Method and apparatus for reference signal resource allocation	ATIS.3GPP.36.211V1070-2013
12/903,593	United States	Pending	Downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
201080046252.8	China P.R.	Pending	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
10770682.2	European Patent Convention	Pending	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
2914/CHENP/2012	India	Pending	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
5490909	Japan	Granted	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013

2014-035992	Japan	Pending	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
10-1443329	Republic of Korea	Granted	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
10-2014-7022033	Republic of Korea	Pending	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
I458318	Taiwan	Granted	Improved downlink association set for uplink ACK/NACK in time division duplex system	ATIS.3GPP.36.213V1070-2013
12/906,700	United States	Pending	Uplink multi-power amplifier/antenna operation and channel prioritization	ATIS.3GPP.36.213V1070-2013
BR1120120094645	Brazil	Pending	Method and apparatus for uplink multi-carrier power amplifier/antenna operation and channel prioritization	ATIS.3GPP.36.213V1070-2013
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3625/CHENP/2012	India	Pending	Method and apparatus for uplink multi-carrier power amplifier/antenna operation and channel prioritization	ATIS.3GPP.36.213V1070-2013
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10-1450292	Republic of Korea	Granted	Method and apparatus for uplink multi-carrier power amplifier/antenna operation and channel prioritization	ATIS.3GPP.36.213V1070-2013
10-2013-7028605	Republic of Korea	Pending	Method and apparatus for uplink multi-carrier power amplifier/antenna operation and channel prioritization	ATIS.3GPP.36.213V1070-2013
I420944	Taiwan	Granted	Uplink multi-power amplifier/antenna operation and channel prioritization	ATIS.3GPP.36.213V1070-2013
12/785,770	United States	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
BR1120120098322	Brazil	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
13/083,443	United States	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
201080048812.3	China P.R.	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
10773222.4	European Patent Convention	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
1055/MUMNP/2012	India	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
5619908	Japan	Granted	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
2014-123358	Japan	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
10-1396628	Republic of Korea	Granted	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
10-1453239	Republic of Korea	Granted	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014
099137056	Taiwan	Pending	Streaming encoded video data	ATIS.3GPP.26.234V1110-2014

12/785,770	United States	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
BR1120120098322	Brazil	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
13/083,443	United States	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
201080048812.3	China P.R.	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
10773222.4	European Patent Convention	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
1055/MUMNP/2012	India	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
5619908	Japan	Granted	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
2014-123358	Japan	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
10-1396628	Republic of Korea	Granted	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
10-1453239	Republic of Korea	Granted	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
099137056	Taiwan	Pending	Streaming encoded video data	ATIS.3GPP.26.244V1110-2014
12/785,770	United States	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
BR1120120098322	Brazil	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
13/083,443	United States	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
201080048812.3	China P.R.	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
10773222.4	European Patent Convention	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
1055/MUMNP/2012	India	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
5619908	Japan	Granted	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
2014-123358	Japan	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
10-1396628	Republic of Korea	Granted	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
10-1453239	Republic of Korea	Granted	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
099137056	Taiwan	Pending	Streaming encoded video data	ATIS.3GPP.26.247V1120-2014
12/917,160	United States	Pending	TDM-FDM relay backhaul channel for LTE advanced	ATIS.3GPP.36.216V1031-2013
201080049471.1	China P.R.	Pending	TDM-FDM relay backhaul channel for LTE advanced	ATIS.3GPP.36.216V1031-2013
10776245.2	European Patent Convention	Pending	TDM-FDM relay backhaul channel for LTE advanced	ATIS.3GPP.36.216V1031-2013
3522/CHENP/2012	India	Pending	TDM-FDM relay backhaul channel for LTE advanced	ATIS.3GPP.36.216V1031-2013
5450829	Japan	Granted	TDM-FDM relay backhaul channel for LTE advanced	ATIS.3GPP.36.216V1031-2013
10-1414117	Republic of Korea	Granted	TDM-FDM relay backhaul channel for LTE advanced	ATIS.3GPP.36.216V1031-2013
12/917,347	United States	Pending	Cross-carrier/cross-subframe indication in a multi-carrier wireless network	ATIS.3GPP.36.213V1070-2013
12/917,347	United States	Pending	Cross-carrier/cross-subframe indication in a multi-carrier wireless network	ATIS.3GPP.36.300V1090-2013
12/917,347	United States	Pending	Cross-carrier/cross-subframe indication in a multi-carrier wireless network	ATIS.3GPP.36.331V1090-2013
12/916,407	United States	Pending	Apparatus and method for providing relay backhaul communications in a wireless communication system	ATIS.3GPP.36.216V1031-2013
201080048773.7	China P.R.	Pending	Apparatus and method for providing relay backhaul communications in a wireless communication system	ATIS.3GPP.36.216V1031-2013
10779138.6	European Patent Convention	Pending	Apparatus and method for providing relay backhaul communications in a wireless communication system	ATIS.3GPP.36.216V1031-2013

3810/CHENP/2012	India	Pending	Apparatus and method for providing relay backhaul communications in a wireless communication system	ATIS.3GPP.36.216V1031-2013
5479608	Japan	Granted	Apparatus and method for providing relay backhaul communications in a wireless communication system	ATIS.3GPP.36.216V1031-2013
10-1412670	Republic of Korea	Granted	Apparatus and method for providing relay backhaul communications in a wireless communication system	ATIS.3GPP.36.216V1031-2013
12/917,397	United States	Pending	Apparatus and method for joint encoding of user specific reference signal information in wireless communication	ATIS.3GPP.36.212V1070-2013
201080049406.9	China P.R.	Pending	Apparatus and method for joint encoding of user specific reference signal information in wireless communication	ATIS.3GPP.36.212V1070-2013
10776244.5	European Patent Convention	Pending	Apparatus and method for joint encoding of user specific reference signal information in wireless communication	ATIS.3GPP.36.212V1070-2013
3427/CHENP/2012	India	Pending	Apparatus and method for joint encoding of user specific reference signal information in wireless communication	ATIS.3GPP.36.212V1070-2013
5559344	Japan	Granted	Apparatus and method for joint encoding of user specific reference signal information in wireless communication	ATIS.3GPP.36.212V1070-2013
10-2012-7014508	Republic of Korea	Pending	Apparatus and method for joint encoding of user specific reference signal information in wireless communication	ATIS.3GPP.36.212V1070-2013
I456964	Taiwan	Granted	Apparatus and method for joint encoding of user specific reference signal information in wireless communication	ATIS.3GPP.36.212V1070-2013
12/917,627	United States	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
14/520,747	United States	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
201080050126.X	China P.R.	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
10778791.3	European Patent Convention	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
3869/CHENP/2012	India	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
5571194	Japan	Granted	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
2014-130708	Japan	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
10-2012-7014743	Republic of Korea	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
10-2013-7034574	Republic of Korea	Pending	Restricting access point transmissions	ATIS.3GPP.36.104V10100-2013
12/958,214	United States	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
BR1120120127438	Brazil	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
201080054653.8	China P.R.	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
201410436724.0	China P.R.	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
201410437290.6	China P.R.	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
10795119.6	European Patent Convention	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013

4442/CHENP/2012	India	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
2012-542195	Japan	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
10-1447168	Republic of Korea	Granted	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
10-2014-7004142	Republic of Korea	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
10-2014-7004143	Republic of Korea	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
099142216	Taiwan	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
103132887	Taiwan	Pending	Sounding reference signal enhancements for wireless communication	ATIS.3GPP.36.213V1070-2013
12/893,190	United States	Pending	Managing a data network connection for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
581/2012	United Arab Emirates	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2010325803	Australia	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2014203141	Australia	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2014203142	Australia	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
BR1120120133098	Brazil	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2781154	Canada	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
201080054916.5	China P.R.	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
13100995.0	Hong Kong	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
10793370.7	European Patent Convention	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
13188323.3	European Patent Convention	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
W-00201202651	Indonesia	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
4443/CHENP/2012	India	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014

2012-542228	Japan	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2014-182669	Japan	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2014-182670	Japan	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
10-1416301	Republic of Korea	Granted	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
PI 2012002096	Malaysia	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
1-2012-500964	Philippines	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2533448	Russian Federation	Granted	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
1201002562	Thailand	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
I445425	Taiwan	Granted	Managing a data network connection for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
2012/04971	South Africa	Pending	Method and apparatus for managing a select IP traffic offload for mobile communications based on user location	ATIS.3GPP.23.060V1150-2014
6,212,364	United States	Granted	Reverse power control device and method for reducing interference between terminals	T1.3GPP.25.214V3120-2004
ZL98117597.X	China P.R.	Granted	Reverse power control device and method for reducing interference between terminals	T1.3GPP.25.214V3120-2004
10-0274087	Republic of Korea	Granted	Reverse power control apparatus and method for reducing interference	T1.3GPP.25.214V3120-2004
6,885,710	United States	Granted	Apparatus and method for channel encoding/decoding in a communication system	T1.3GPP.25.212V3110-2003
733641	Australia	Granted	Channel encoding/decoding apparatus and method for communication system	T1.3GPP.25.212V3110-2003
PI9906360-3	Brazil	Granted	Apparatus and method for channel encoding/decoding in a communication system	T1.3GPP.25.212V3110-2003
2292568	Canada	Granted	Channel encoding/decoding apparatus and method for communication system	T1.3GPP.25.212V3110-2003
ZL99800575.4	China P.R.	Granted	Channel encoding/decoding apparatus and method for communication system	T1.3GPP.25.212V3110-2003
7,372,921	United States	Granted	Apparatus and method for channel encoding/decoding in a communication system	T1.3GPP.25.212V3110-2003
EP1722477	Germany	Granted	Iterative decoding apparatus and method with varying number of iterations	T1.3GPP.25.212V3110-2003

EP1722477	European Patent Convention	Granted	Iterative decoding apparatus and method with varying number of iterations	T1.3GPP.25.212V3110-2003
EP1722477	Finland	Granted	Iterative decoding apparatus and method with varying number of iterations	T1.3GPP.25.212V3110-2003
EP1722477	France	Granted	Iterative decoding apparatus and method with varying number of iterations	T1.3GPP.25.212V3110-2003
EP1722477	Great Britain	Granted	Iterative decoding apparatus and method with varying number of iterations	T1.3GPP.25.212V3110-2003
206401	India	Granted	Channel encoding/decoding apparatus and method for communication system	T1.3GPP.25.212V3110-2003
EP1722477	Italy	Granted	Iterative decoding apparatus and method with varying number of iterations	T1.3GPP.25.212V3110-2003
10-0429506	Republic of Korea	Granted	Channel coding/decoding device of a communication system and a method therefor, especially concerned with a soft decision iterative decoding function	T1.3GPP.25.212V3110-2003
2212100	Russian Federation	Granted	Device and method for channel coding/decoding in communication system	T1.3GPP.25.212V3110-2003
EP1722477	Sweden	Granted	Iterative decoding apparatus and method with varying number of iterations	T1.3GPP.25.212V3110-2003
6,529,496	United States	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
PI9906664-5	Brazil	Pending	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
ZL99801239.4	China P.R.	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
EP1044516	Germany	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
EP1044516	European Patent Convention	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
EP1044516	Finland	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
EP1044516	Great Britain	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003

202536	India	Granted	A device for limiting a transmission power of an antenna in a time switched transmission diversity and a method for the same	T1.3GPP.25.211V3120-2003
EP1044516	Italy	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
10-0326314	Republic of Korea	Granted	Maximum transmitting power limiting device of antenna in transmission switching diversity system and method therefor	T1.3GPP.25.211V3120-2003
2174286	Russian Federation	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
EP1044516	Sweden	Granted	TSTD transmitter for limiting transmission power of antenna and controlling method thereof for base station in mobile communication system	T1.3GPP.25.211V3120-2003
6,621,873	United States	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
PI9908388-4	Brazil	Pending	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
2321977	Canada	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
ZL99803456.8	China P.R.	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
99962552.8	European Patent Convention	Pending	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
219535	India	Granted	A puncturing device for a turbo encoder in a mobile communication system and a puncturing method thereof	T1.3GPP.25.211V3120-2003
3359911	Japan	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
10-0315708	Republic of Korea	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
2185025	Russian Federation	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.211V3120-2003
6,621,873	United States	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003
PI9908388-4	Brazil	Pending	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003
2321977	Canada	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003
ZL99803456.8	China P.R.	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003
99962552.8	European Patent Convention	Pending	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003

219535	India	Granted	A puncturing device for a turbo encoder in a mobile communication system and a puncturing method thereof	T1.3GPP.25.212V3110-2003
3359911	Japan	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003
10-0315708	Republic of Korea	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003
2185025	Russian Federation	Granted	Puncturing device and method for turbo encoder in mobile communication system	T1.3GPP.25.212V3110-2003
6,591,381	United States	Granted	2-Dimensional interleaving apparatus and method	T1.3GPP.25.211V3120-2003
759580	Australia	Granted	Two-dimensional interleaving apparatus and method	T1.3GPP.25.211V3120-2003
PI0009376-9	Brazil	Pending	2-Dimensional interleaving apparatus and method	T1.3GPP.25.211V3120-2003
210935	India	Granted	An improved encoding device and method	T1.3GPP.25.211V3120-2003
3574405	Japan	Granted	Two-dimensional interleaving apparatus and method	T1.3GPP.25.211V3120-2003
10-0362557	Republic of Korea	Granted	Two-dimension interleaving device and method	T1.3GPP.25.211V3120-2003
6,591,381	United States	Granted	2-Dimensional interleaving apparatus and method	T1.3GPP.25.212V3110-2003
759580	Australia	Granted	Two-dimensional interleaving apparatus and method	T1.3GPP.25.212V3110-2003
PI0009376-9	Brazil	Pending	2-Dimensional interleaving apparatus and method	T1.3GPP.25.212V3110-2003
210935	India	Granted	An improved encoding device and method	T1.3GPP.25.212V3110-2003
3574405	Japan	Granted	Two-dimensional interleaving apparatus and method	T1.3GPP.25.212V3110-2003
10-0362557	Republic of Korea	Granted	Two-dimension interleaving device and method	T1.3GPP.25.212V3110-2003
6,747,963	United States	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
765329	Australia	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
PI0009713-6	Brazil	Pending	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
ZL00806189.0	China P.R.	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1420538	Germany	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1420538	European Patent Convention	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1420538	Great Britain	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
145548	Israel	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
213350	India	Granted	An apparatus for transmitting down link signals in a base station	T1.3GPP.25.211V3120-2003
4435991	Japan	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
4566956	Japan	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.211V3120-2003
10-0374336	Republic of Korea	Granted	Gated transmission method of code division multiple access communication system	T1.3GPP.25.211V3120-2003

2233543	Russian Federation	Granted	Device and method for strobe-directed transmission in CDMA communication system	T1.3GPP.25.211V3120-2003
6,747,963	United States	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
765329	Australia	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
PI0009713-6	Brazil	Pending	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
ZL00806189.0	China P.R.	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
EP1420538	Germany	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
EP1420538	European Patent Convention	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
EP1420538	Great Britain	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
145548	Israel	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
213350	India	Granted	An apparatus for transmitting down link signals in a base station	T1.3GPP.25.212V3110-2003
4435991	Japan	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
4566956	Japan	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.212V3110-2003
10-0374336	Republic of Korea	Granted	Gated transmission method of code division multiple access communication system	T1.3GPP.25.212V3110-2003
2233543	Russian Federation	Granted	Device and method for strobe-directed transmission in CDMA communication system	T1.3GPP.25.212V3110-2003
6,747,963	United States	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
765329	Australia	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
PI0009713-6	Brazil	Pending	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
ZL00806189.0	China P.R.	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
EP1420538	Germany	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
EP1420538	European Patent Convention	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
EP1420538	Great Britain	Granted	Method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
145548	Israel	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
213350	India	Granted	An apparatus for transmitting down link signals in a base station	T1.3GPP.25.214V3120-2004
4435991	Japan	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004

4566956	Japan	Granted	Apparatus and method for gated transmission in a CDMA communication system	T1.3GPP.25.214V3120-2004
10-0374336	Republic of Korea	Granted	Gated transmission method of code division multiple access communication system	T1.3GPP.25.214V3120-2004
2233543	Russian Federation	Granted	Device and method for strobe-directed transmission in CDMA communication system	T1.3GPP.25.214V3120-2004
6,963,540	United States	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
760229	Australia	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
PI0016008-3	Brazil	Pending	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
2392886	Canada	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
ZL00818399.6	China P.R.	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1232575	Germany	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1232575	European Patent Convention	Granted	Method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1232575	France	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1232575	Great Britain	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
149656	Israel	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
214973	India	Granted	A method of base and mobile station operation in a CDMA communication system	T1.3GPP.25.211V3120-2003
EP1232575	Italy	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
3807982	Japan	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
10-0357631	Republic of Korea	Granted	Method and apparatus for allocating common packet channel in CDMA communication system	T1.3GPP.25.211V3120-2003
2262202	Russian Federation	Granted	Device and method for assigning common packet channel in mobile communications system	T1.3GPP.25.211V3120-2003
2002/05150	South Africa	Granted	Apparatus and method for assigning a common packet channel in a CDMA communication system	T1.3GPP.25.211V3120-2003
7,061,890	United States	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.211V3120-2003
ZL01801560.3	China P.R.	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.211V3120-2003
EP1212853	Germany	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.211V3120-2003

EP1212853	European Patent Convention	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.211V3120-2003
EP1212853	Great Britain	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.211V3120-2003
EP1212853	Italy	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.211V3120-2003
3801983	Japan	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.211V3120-2003
10-0389818	Republic of Korea	Granted	Method for deciding rach of CDMA mobile communication system	T1.3GPP.25.211V3120-2003
7,061,890	United States	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.212V3110-2003
ZL01801560.3	China P.R.	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.212V3110-2003
EP1212853	Germany	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.212V3110-2003
EP1212853	European Patent Convention	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.212V3110-2003
EP1212853	Great Britain	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.212V3110-2003
EP1212853	Italy	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.212V3110-2003
3801983	Japan	Granted	Method for selecting rach in a CDMA mobile communication system	T1.3GPP.25.212V3110-2003
10-0389818	Republic of Korea	Granted	Method for deciding rach of CDMA mobile communication system	T1.3GPP.25.212V3110-2003
7,826,415	United States	Granted	Apparatus and method for allocating frequencies in an OFDM mobile communication system supporting high speed downlink packet access service	ATIS.3GPP.36.213V1070-2013
2005203660	Australia	Granted	Apparatus and method for allocating frequencies in an OFDM mobile communication system supporting high speed downlink packet access service	ATIS.3GPP.36.213V1070-2013
751/KOL/05	India	Pending	Apparatus and method for allocating frequencies in an OFDM mobile communication system supporting high speed down link packet access service	ATIS.3GPP.36.213V1070-2013
4243264	Japan	Granted	Apparatus and method for assigning frequency to support high-speed downlink packet access service in orthogonal frequency division multiplexing mobile communication system	ATIS.3GPP.36.213V1070-2013
10-0929103	Republic of Korea	Granted	OFDM transmission system and method for effective allocating frequency supports HSDPA	ATIS.3GPP.36.213V1070-2013
8,310,994	United States	Granted	Method for configuring and managing channels in a wireless communication system using AMC channels and diversity channels, transmission/reception apparatus thereof, and system thereof	ATIS.3GPP.36.211V1070-2013
2006241620	Australia	Pending	Method for configuring and managing channels in a wireless communication system using AMC channels and diversity channels, transmission/reception apparatus thereof, and system thereof	ATIS.3GPP.36.211V1070-2013
PI0610896-2	Brazil	Pending	Method for configuring and managing channels in a wireless communication system using AMC channels and diversity channels, transmission/reception apparatus thereof, and system thereof	ATIS.3GPP.36.211V1070-2013
8472/DELNP/2007	India	Pending	Method for configuring and managing channels in a wireless communication system using AMC channels and diversity channels, transmission/reception apparatus thereof, and system thereof	ATIS.3GPP.36.211V1070-2013

2008-509941	Japan	Pending	Method for configuring and managing channel in a wireless communication system using AMC channel and diversity channel, <u>transmission/reception apparatus therefor, and system thereof</u>	ATIS.3GPP.36.211V1070-2013
10-2005-0037779	Republic of Korea	Pending	Configuration and managing apparatus and method of channel in OFDMA system and transmitting/receiving method and apparatus thereof	ATIS.3GPP.36.211V1070-2013
2382501	Russian Federation	Granted	Method for configuring and managing channels in a wireless communication system using AMC channels and diversity channels, <u>transmission/reception apparatus thereof, and system thereof</u>	ATIS.3GPP.36.211V1070-2013
8,699,960	United States	Granted	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
ZL200880122020.9	China P.R.	Granted	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
14/199,952	United States	Pending	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
08171981.7	European Patent Convention	Pending	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
08865616.0	European Patent Convention	Pending	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
4538/CHENP/2010	India	Pending	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
5572554	Japan	Granted	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
2013-197008	Japan	Pending	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
10-2010-7016371	Republic of Korea	Pending	Methods and apparatus for channel quality indication feedback in a <u>communication system</u>	ATIS.3GPP.36.213V1070-2013
7,613,245	United States	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple <u>access</u>	ATIS.3GPP.36.211V1070-2013
2006201869	Australia	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple <u>access</u>	ATIS.3GPP.36.211V1070-2013
ZL200610084158.7	China P.R.	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple <u>access</u>	ATIS.3GPP.36.211V1070-2013
7,697,631	United States	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple <u>access</u>	ATIS.3GPP.36.211V1070-2013

7,929,590	United States	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple access	ATIS.3GPP.36.211V1070-2013
8,571,122	United States	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple access	ATIS.3GPP.36.211V1070-2013
06009140.2	European Patent Convention	Pending	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple access	ATIS.3GPP.36.211V1070-2013
253282	India	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple access	ATIS.3GPP.36.211V1070-2013
48/KOL/2011	India	Pending	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple access	ATIS.3GPP.36.211V1070-2013
4319665	Japan	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple access	ATIS.3GPP.36.211V1070-2013
10-0724949	Republic of Korea	Granted	Method and apparatus for multiplexing data and control information in wireless communication systems based on frequency division multiple access	ATIS.3GPP.36.211V1070-2013
2320087	Russian Federation	Granted	Method and device for multiplexing data of control information in wireless communication systems based on multi-access with frequency division	ATIS.3GPP.36.211V1070-2013
7,093,185	United States	Granted	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
2002233774	Australia	Granted	Apparatus and method for generating codes in in communication system	ATIS.3GPP.36.212V1070-2013
2003252889	Australia	Granted	Apparatus for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
PI0204043-3	Brazil	Pending	Apparatus and method for generating codes in communication systems	ATIS.3GPP.36.212V1070-2013
7,200,796	United States	Granted	Apparatus for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
2405119	Canada	Granted	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
ZL02800733.6	China P.R.	Granted	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
ZL200310102732.3	China P.R.	Granted	Equipment for producing code in communication system	ATIS.3GPP.36.212V1070-2013
EP1231735	Germany	Granted	Apparatus and method for generating code in a communication system	ATIS.3GPP.36.212V1070-2013
EP1231735	European Patent Convention	Granted	Apparatus and method for generating code in a communication system	ATIS.3GPP.36.212V1070-2013

05005871.8	European Patent Convention	Pending	Apparatus and method for generating code in a communication system	ATIS.3GPP.36.212V1070-2013
10011684.7	European Patent Convention	Pending	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
EP1231735	Finland	Granted	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
2820913	France	Granted	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
2376393	Great Britain	Granted	Apparatus and method for generating codes in a communication system	ATIS.3GPP.36.212V1070-2013
2394153	Great Britain	Granted	Apparatus and method for generating codes in a communication system	ATIS.3GPP.36.212V1070-2013
213752	India	Granted	Apparatus and method for generating codes in a communication system	ATIS.3GPP.36.212V1070-2013
220354	India	Granted	An inter leaving apparatus for generating quasi complementary turbo code	ATIS.3GPP.36.212V1070-2013
250206	India	Granted	Method for generating codes in a communication system	ATIS.3GPP.36.212V1070-2013
EP1231735	Italy	Granted	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
3636708	Japan	Granted	Appareil et procede de generation de turbocodes quasi complementaires	ATIS.3GPP.36.212V1070-2013
3863148	Japan	Granted	Interleaving apparatus and method	ATIS.3GPP.36.212V1070-2013
10-0438448	Republic of Korea	Granted	Apparatus and method for generating codes in communication systems	ATIS.3GPP.36.212V1070-2013
2233541	Russian Federation	Granted	Device and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
2332789	Russian Federation	Granted	Appareil et procede de generation de turbocodes quasi complementaires	ATIS.3GPP.36.212V1070-2013
EP1231735	Sweden	Granted	Apparatus and method for generating codes in communication system	ATIS.3GPP.36.212V1070-2013
8,873,454	United States	Granted	Apparatus and method for transmit-response timing for relay operation in wireless communications	ATIS.3GPP.36.216V1031-2013
201080057192.X	China P.R.	Pending	Apparatus and method for transmit-response timing for relay operation in wireless communications	ATIS.3GPP.36.216V1031-2013
10801515.7	European Patent Convention	Pending	Apparatus and method for transmit-response timing for relay operation in wireless communications	ATIS.3GPP.36.216V1031-2013
5176/CHENP/2012	India	Pending	Apparatus and method for transmit-response timing for relay operation in wireless communications	ATIS.3GPP.36.216V1031-2013
5529290	Japan	Granted	Apparatus and method for transmit-response timing for relay operation in wireless communications	ATIS.3GPP.36.216V1031-2013
10-1430013	Republic of Korea	Granted	Apparatus and method for transmit-response timing for relay operation in wireless communications	ATIS.3GPP.36.216V1031-2013

I424700	Taiwan	Granted	Apparatus and method for transmit-response timing for relay operation in wireless communications	ATIS.3GPP.36.216V1031-2013
12/976,818	United States	Pending	Fallback operation for cross-carrier signaling in multicarrier operation	ATIS.3GPP.36.212V1070-2013
710/2012	United Arab Emirates	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
BR1120120159500	Brazil	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
2785649	Canada	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
201080060110.7	China P.R.	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
13103366.5	Hong Kong	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
10803192.3	European Patent Convention	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
W-00201203035	Indonesia	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
5111/CHENP/2012	India	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
5591950	Japan	Granted	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
10-2012-7020113	Republic of Korea	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
1-2012-501287	Philippines	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
2531596	Russian Federation	Granted	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
1201003243	Thailand	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
099146688	Taiwan	Pending	Fallback operation for cross-carrier signaling in multi-carrier operation	ATIS.3GPP.36.212V1070-2013
1-2012-02251	Vietnam	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
2012/05382	South Africa	Pending	Cross-carrier signaling in a multi-carrier system	ATIS.3GPP.36.212V1070-2013
8,688,163	United States	Granted	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
BR1120120149890	Brazil	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
201080059369.X	China P.R.	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
201410436104.7	China P.R.	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
10801536.3	European Patent Convention	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
5492/CHENP/2012	India	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
2012-547172	Japan	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
10-1448285	Republic of Korea	Granted	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
10-2013-7031956	Republic of Korea	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013
10-2014-7010317	Republic of Korea	Pending	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.213V1070-2013

I441543	Taiwan	Granted	Interaction between accumulative power control and minimum/maximum transmit power in LTE systems	ATIS.3GPP.36.211V1070-2013
12/987,771	United States	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
730/2012	United Arab Emirates	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
BR1120120166506	Brazil	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
2785798	Canada	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
201180005749.X	China P.R.	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
13103730.4	Hong Kong	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
11701327.6	European Patent Convention	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
W-00201203231	Indonesia	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
1558/MUMNP/2012	India	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
5639193	Japan	Granted	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
2014-158042	Japan	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
10-2012-7021199	Republic of Korea	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
PI 2012002809	Malaysia	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
1-2012-501354	Philippines	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
2012134404	Russian Federation	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
I436613	Taiwan	Granted	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
2012/05578	South Africa	Pending	Multiplexing demodulation reference signals in wireless communications	ATIS.3GPP.36.211V1070-2013
8,599,708	United States	Granted	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
BR1120120174134	Brazil	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
14/094,548	United States	Pending	Method and apparatus for channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
2786452	Canada	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013

201180011404.5	China P.R.	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
13107242.6	Hong Kong	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
11701590.9	European Patent Convention	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
W-00201203292	Indonesia	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
1613/MUMNP/2012	India	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
2012-549141	Japan	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
10-2012-7021377	Republic of Korea	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
10-2014-7033446	Republic of Korea	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
PI 2012002945	Malaysia	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
1-2012-501327	Philippines	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
2520358	Russian Federation	Granted	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
100101555	Taiwan	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
2012/05771	South Africa	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.211V1070-2013
8,599,708	United States	Granted	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
BR1120120174134	Brazil	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
14/094,548	United States	Pending	Method and apparatus for channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
2786452	Canada	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
201180011404.5	China P.R.	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
13107242.6	Hong Kong	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
11701590.9	European Patent Convention	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
W-00201203292	Indonesia	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
1613/MUMNP/2012	India	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
2012-549141	Japan	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
10-2012-7021377	Republic of Korea	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
10-2014-7033446	Republic of Korea	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
PI 2012002945	Malaysia	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
1-2012-501327	Philippines	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
2520358	Russian Federation	Granted	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
100101555	Taiwan	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
2012/05771	South Africa	Pending	Channel feedback based on reference signal	ATIS.3GPP.36.213V1070-2013
12/987,901	United States	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.23.402V1160-2014
201180011252.9	China P.R.	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.23.402V1160-2014
11703065.0	European Patent Convention	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.23.402V1160-2014
1604/MUMNP/2012	India	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.23.402V1160-2014
2012-549142	Japan	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.23.402V1160-2014

10-1458081	Republic of Korea	Granted	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.23.402V1160-2014
100101587	Taiwan	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.23.402V1160-2014
12/987,901	United States	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.24.312V1160-2014
201180011252.9	China P.R.	Pending	Apparatus and method for allocating data flows based on indication of selection criteria	ATIS.3GPP.24.312V1160-2014
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201180006340.X	China P.R.	Pending	Method and apparatus for power scaling for mutli-carrier wireless terminals	ATIS.3GPP.36.213V1070-2013
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5757/CHENP/2012	India	Pending	Method and apparatus for power scaling for mutli-carrier wireless terminals	ATIS.3GPP.36.213V1070-2013
2012-550147	Japan	Pending	Method and apparatus for power scaling for mutli-carrier wireless terminals	ATIS.3GPP.36.213V1070-2013
10-2012-7021734	Republic of Korea	Pending	Method and apparatus for power scaling for mutli-carrier wireless terminals	ATIS.3GPP.36.213V1070-2013
13/016,837	United States	Pending	Method and apparatus for signaling expansion and backward compatibility preservation in wireless communication systems	ATIS.3GPP.36.212V1070-2013
201180007232.4	China P.R.	Pending	Method and apparatus for signaling expansion and backward compatibility preservation in wireless communication systems	ATIS.3GPP.36.212V1070-2013
11703539.4	European Patent Convention	Pending	Method and apparatus for signaling expansion and backward compatibility preservation in wireless communication systems	ATIS.3GPP.36.212V1070-2013
6588/CHENP/2012	India	Pending	Method and apparatus for signaling expansion and backward compatibility preservation in wireless communication systems	ATIS.3GPP.36.212V1070-2013
2012-551359	Japan	Pending	Method and apparatus for signaling expansion and backward compatibility preservation in wireless communication systems	ATIS.3GPP.36.212V1070-2013
10-2012-7022647	Republic of Korea	Pending	Method and apparatus for signaling expansion and backward compatibility preservation in wireless communication systems	ATIS.3GPP.36.212V1070-2013

100103703	Taiwan	Pending	Method and apparatus for signaling expansion and backward compatibility preservation in wireless communication systems	ATIS.3GPP.36.212V1070-2013
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BR1120120195034	Brazil	Pending	Apparatus and method for uplink transmit diversity	T1.3GPP.25.211V3120-2003
201180014913.3	China P.R.	Pending	Apparatus and method for uplink transmit diversity	T1.3GPP.25.211V3120-2003
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5572721	Japan	Granted	Apparatus and method for uplink transmit diversity	T1.3GPP.25.211V3120-2003
10-2012-7023240	Republic of Korea	Pending	Apparatus and method for uplink transmit diversity	T1.3GPP.25.211V3120-2003
I425780	Taiwan	Granted	Apparatus and method for enabling uplink beamforming transit diversity	T1.3GPP.25.211V3120-2003
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BR1120120195034	Brazil	Pending	Apparatus and method for uplink transmit diversity	T1.3GPP.25.213V390-2004
201180014913.3	China P.R.	Pending	Apparatus and method for uplink transmit diversity	T1.3GPP.25.213V390-2004
11703556.8	European Patent Convention	Pending	Apparatus and method for uplink transmit diversity	T1.3GPP.25.213V390-2004
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5572721	Japan	Granted	Apparatus and method for uplink transmit diversity	T1.3GPP.25.213V390-2004
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I425780	Taiwan	Granted	Apparatus and method for enabling uplink beamforming transit diversity	T1.3GPP.25.213V390-2004
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I425780	Taiwan	Granted	Apparatus and method for enabling uplink beamforming transit diversity	T1.3GPP.25.214V3120-2004
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201180008075.9	China P.R.	Pending	Antenna switching in a closed loop transmit diversity system	T1.3GPP.25.212V3110-2003
11706063.2	European Patent Convention	Pending	Antenna switching in a closed loop transmit diversity system	T1.3GPP.25.212V3110-2003
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2012-552125	Japan	Pending	Antenna switching in a closed loop transmit diversity system	T1.3GPP.25.212V3110-2003
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P110102629	Argentina	Pending	Arranging sub-track fragments for streaming video data	ATIS.3GPP.26.234V1110-2014
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224196	Israel	Pending	Arranging sub-track fragments for streaming video data	ATIS.3GPP.26.234V1110-2014
345/CHENP/2013	India	Pending	Arranging sub-track fragments for streaming video data	ATIS.3GPP.26.234V1110-2014
5551315	Japan	Granted	Arranging sub-track fragments for streaming video data	ATIS.3GPP.26.234V1110-2014
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2013107363	Russian Federation	Pending	Arranging sub-track fragments for streaming video data	ATIS.3GPP.26.234V1110-2014
201300197-9	Singapore	Pending	Arranging sub-track fragments for streaming video data	ATIS.3GPP.26.234V1110-2014
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12/840,146	United States	Pending	Arranging sub-track fragments for streaming video data	ATIS.3GPP.26.244V1110-2014
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BR1120120198424	Brazil	Pending	Aperiodic sounding reference signal transmission method and apparatus	ATIS.3GPP.36.213V1070-2013
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10-2012-7023646	Republic of Korea	Pending	Aperiodic sounding reference signal transmission method and apparatus	ATIS.3GPP.36.213V1070-2013
10-2014-7016571	Republic of Korea	Pending	Aperiodic sounding reference signal transmission method and apparatus	ATIS.3GPP.36.213V1070-2013
100104447	Taiwan	Pending	Aperiodic sounding reference signal transmission method and apparatus	ATIS.3GPP.36.213V1070-2013
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2788127	Canada	Pending	4C-HSDPA acknowledgment signaling	T1.3GPP.25.212V3110-2003
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13104651.7	Hong Kong	Pending	4C-HSDPA acknowledgment signaling	T1.3GPP.25.212V3110-2003
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201180012355.7	China P.R.	Pending	Method and apparatus to control visited network access for devices	ATIS.3GPP.31.102V1140-2014
11709551.3	European Patent Convention	Pending	Method and apparatus to control visited network access for devices	ATIS.3GPP.31.102V1140-2014
13184644.6	European Patent Convention	Pending	Method and apparatus to control visited network access for devices	ATIS.3GPP.31.102V1140-2014
7299/CHENP/2012	India	Pending	Method and apparatus to control visited network access for devices	ATIS.3GPP.31.102V1140-2014
5579878	Japan	Granted	Method and apparatus to control visited network access for devices	ATIS.3GPP.31.102V1140-2014
2014-103673	Japan	Pending	Method and apparatus to control visited network access for devices	ATIS.3GPP.31.102V1140-2014
10-2012-7026122	Republic of Korea	Pending	Method and apparatus to control visited network access for devices	ATIS.3GPP.31.102V1140-2014
13/036,574	United States	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.060V1150-2014
201180022350.2	China P.R.	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.060V1150-2014
11709552.1	European Patent Convention	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.060V1150-2014
7653/CHENP/2012	India	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.060V1150-2014
2012-557137	Japan	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.060V1150-2014
10-2012-7026116	Republic of Korea	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.060V1150-2014
13/036,574	United States	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.401V1150-2014
201180022350.2	China P.R.	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.401V1150-2014
11709552.1	European Patent Convention	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.401V1150-2014
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10-2012-7026116	Republic of Korea	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.23.401V1150-2014
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201180022350.2	China P.R.	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.002V1160-2014

11709552.1	European Patent Convention	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.002V1160-2014
7653/CHENP/2012	India	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.002V1160-2014
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10-2012-7026116	Republic of Korea	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.002V1160-2014
13/036,574	United States	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.272V1160-2014
201180022350.2	China P.R.	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.272V1160-2014
11709552.1	European Patent Convention	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.272V1160-2014
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2012-557137	Japan	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.272V1160-2014
10-2012-7026116	Republic of Korea	Pending	Method and apparatus to control local internet protocol access for devices	ATIS.3GPP.29.272V1160-2014
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201180014488.8	China P.R.	Pending	Methods of resolving PDCCH payload size ambiguity in LTE	ATIS.3GPP.36.213V1070-2013
11710104.8	European Patent Convention	Pending	Methods of resolving PDCCH payload size ambiguity in LTE	ATIS.3GPP.36.213V1070-2013
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2013-500195	Japan	Pending	Methods of resolving PDCCH payload size ambiguity in LTE	ATIS.3GPP.36.213V1070-2013
10-2012-7027243	Republic of Korea	Pending	Methods of resolving PDCCH payload size ambiguity in LTE	ATIS.3GPP.36.213V1070-2013
100109195	Taiwan	Pending	Methods of resolving PDCCH confusion in LTE	ATIS.3GPP.36.213V1070-2013
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BR1120120235559	Brazil	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.213V1070-2013
201180014498.1	China P.R.	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.213V1070-2013
11711720.0	European Patent Convention	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.213V1070-2013
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10-2012-7027265	Republic of Korea	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.213V1070-2013
100109408	Taiwan	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.213V1070-2013
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BR1120120235559	Brazil	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.331V1090-2013
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11711720.0	European Patent Convention	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.331V1090-2013
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100109408	Taiwan	Pending	Random access design in a multiple component carrier communication network	ATIS.3GPP.36.331V1090-2013
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201180014507.7	China P.R.	Pending	User-specific search space design for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
11710106.3	European Patent Convention	Pending	User-specific search space design for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
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100109196	Taiwan	Pending	Method, apparatus, computer program product, and wireless node for User-specific search design for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
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100110375	Taiwan	Pending	Data radio bearer mapping in a telecommunication network with relays	ATIS.3GPP.36.300V1090-2013
12/904,509	United States	Pending	Method and apparatus to facilitate support for multi-radio coexistence	ATIS.3GPP.36.331V1090-2013
BR1120120244710	Brazil	Pending	Method and apparatus for multi-radio coexistence	ATIS.3GPP.36.331V1090-2013
201180023286.X	China P.R.	Pending	Method and apparatus for multi-radio coexistence	ATIS.3GPP.36.331V1090-2013
11713598.8	European Patent Convention	Pending	Method and apparatus for multi-radio coexistence	ATIS.3GPP.36.331V1090-2013
7992/CHENPP/2012	India	Pending	Method and apparatus for multi-radio coexistence	ATIS.3GPP.36.331V1090-2013
2013-502811	Japan	Pending	Method and apparatus for multi-radio coexistence	ATIS.3GPP.36.331V1090-2013
10-2012-7028668	Republic of Korea	Pending	Method and apparatus for multi-radio coexistence	ATIS.3GPP.36.331V1090-2013
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201180017321.7	China P.R.	Pending	Feedback of control information for multiple carriers	ATIS.3GPP.36.212V1070-2013
EP2556618	Germany	Granted	Feedback of control information for multiple carriers	ATIS.3GPP.36.212V1070-2013
EP2556618	European Patent Convention	Granted	Feedback of control information for multiple carriers	ATIS.3GPP.36.212V1070-2013
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EP2556618	Netherlands	Granted	Feedback of control information for multiple carriers	ATIS.3GPP.36.212V1070-2013
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BR1120120251805	Brazil	Pending	Power headroom reporting	ATIS.3GPP.36.213V1070-2013

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100111868	Taiwan	Pending	Power headroom reporting	ATIS.3GPP.36.213V1070-2013
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201180017392.7	China P.R.	Pending	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.36.331V1090-2013
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5571240	Japan	Granted	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.36.331V1090-2013
10-2012-7029004	Republic of Korea	Pending	Method and apparatus for signaling user equipment capabilities	ATIS.3GPP.36.331V1090-2013
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BR1120120250590	Brazil	Pending	Muting schemes for channel state information reference signal and signaling thereof	ATIS.3GPP.36.211V1070-2013
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100111873	Taiwan	Pending	Muting schemes for channel state information reference signal and signaling thereof	ATIS.3GPP.36.211V1070-2013
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104235	Ukraine	Granted	Flexible uplink control channel configuration	T1.3GPP.25.212V3110-2003
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1076/2012	United Arab Emirates	Pending	Methods and apparatuses for radio resource management measurements of a user equipment in a heterogeneous network	ATIS.3GPP.36.331V1090-2013
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13108636.8	Hong Kong	Pending	Methods and apparatuses for radio resource management measurements of a user equipment in a heterogeneous network	ATIS.3GPP.36.331V1090-2013
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312171	Mexico	Granted	Methods and apparatuses for radio resource management measurements of a user equipment in a heterogeneous network	ATIS.3GPP.36.331V1090-2013
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2529421	Russian Federation	Granted	Methods and apparatuses for radio resource management measurements of a user equipment in a heterogeneous network	ATIS.3GPP.36.331V1090-2013
1201005381	Thailand	Pending	Methods and apparatuses for radio resource management measurements of a user equipment in a heterogeneous network	ATIS.3GPP.36.331V1090-2013
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1070/2012	United Arab Emirates	Pending	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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2011240585	Australia	Granted	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
2014200316	Australia	Pending	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
EP2559182	Belgium	Granted	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
BR1120120261584	Brazil	Pending	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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EP2559182	Greece	Granted	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
EP2559182	Hungary	Granted	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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1-2012-502048	Philippines	Pending	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
EP2559182	Poland	Granted	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
EP2559182	Portugal	Granted	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
EP2559182	Romania	Granted	CQI estimation in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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BR1120120261436	Brazil	Pending	Channel state information reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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13106318.7	Hong Kong	Pending	Channel state information reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
11717832.7	European Patent Convention	Pending	Channel state information reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
W-00201204691	Indonesia	Pending	Channel state information reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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5642872	Japan	Granted	Channel state information reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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2012/08419	South Africa	Granted	Channel state information reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
13/085,371	United States	Pending	Periodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
1077/2012	United Arab Emirates	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
BR1120120258532	Brazil	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
2794299	Canada	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
201180018773.7	China P.R.	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
13105196.6	Hong Kong	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
11717833.5	European Patent Convention	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
W-00201204693	Indonesia	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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5642873	Japan	Granted	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
2014-220761	Japan	Pending	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
10-1441637	Republic of Korea	Granted	Aperiodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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1-2012-03262	Vietnam	Pending	A periodic CQI reporting in a wireless communication network	ATIS.3GPP.36.213V1070-2013
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8,712,401	United States	Granted	Radio link monitoring (RLM) and reference signal received power (RSRP) measurement for heterogeneous networks	ATIS.3GPP.36.331V1090-2013
1091/2012	United Arab Emirates	Pending	Radio link monitoring (RLM) and reference signal received power (RSRP) measurement for heterogeneous networks	ATIS.3GPP.36.331V1090-2013
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13105194.8	Hong Kong	Pending	Radio link monitoring (RLM) and reference signal received power (RSRP) measurement for heterogeneous networks	ATIS.3GPP.36.331V1090-2013
14/243,450	United States	Pending	Radio link monitoring (RLM) and reference signal received power (RSRP) measurement for heterogeneous networks	ATIS.3GPP.36.331V1090-2013

11717848.3	European Patent Convention	Pending	Radio link monitoring (RLM) and reference signal received power (RSRP) measurement for heterogeneous networks	ATIS.3GPP.36.331V1090-2013
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BR1120120331841	Brazil	Pending	Demodulation reference signals (DM-RS) for PHICH or PDCCH based retransmission in LTE-A wireless communication	ATIS.3GPP.36.213V1070-2013
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2013-521948	Japan	Pending	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.267V1100-2014

10-1388765	Republic of Korea	Granted	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.267V1100-2014
8,817,934	United States	Granted	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.268V1100-2014
201180036908.2	China P.R.	Pending	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.268V1100-2014
11748798.3	European Patent Convention	Pending	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.268V1100-2014
296/CHENP/2013	India	Pending	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.268V1100-2014
2013-521948	Japan	Pending	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.268V1100-2014
10-1388765	Republic of Korea	Granted	System and method for synchronization tracking in an in-band modem	ATIS.3GPP.26.268V1100-2014
13/149,639	United States	Pending	Apparatus and methods for inter-user equipment transfers	ATIS.3GPP.24.337V1140-2014
201180039019.1	China P.R.	Pending	Apparatus and methods for inter-user equipment transfers	ATIS.3GPP.24.337V1140-2014
11745904.0	European Patent Convention	Pending	Apparatus and methods for inter-user equipment transfers	ATIS.3GPP.24.337V1140-2014
691/CHENP/2013	India	Pending	Apparatus and methods for inter-user equipment transfers	ATIS.3GPP.24.337V1140-2014
5612212	Japan	Granted	Apparatus and methods for inter-user equipment transfers	ATIS.3GPP.24.337V1140-2014
10-2013-7006426	Republic of Korea	Pending	Apparatus and methods for inter-user equipment transfers	ATIS.3GPP.24.337V1140-2014
13/209,388	United States	Pending	ACK/NACK transmission for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
BR1120130035692	Brazil	Pending	ACK/NACK transmission for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
201180044132.9	China P.R.	Pending	ACK/NACK transmission for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
11752682.2	European Patent Convention	Pending	ACK/NACK transmission for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
429/MUMNP/2013	India	Pending	ACK/NACK transmission for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
2013-524909	Japan	Pending	ACK/NACK transmission for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
10-2013-7006812	Republic of Korea	Pending	ACK/NACK transmission for multi-carrier operation	ATIS.3GPP.36.213V1070-2013
13/208,080	United States	Pending	Aperiodic channel quality indicator report in carrier aggregation	ATIS.3GPP.36.213V1070-2013
BR112013003563 3	Brazil	Pending	Aperiodic channel quality indicator report in carrier aggregation	ATIS.3GPP.36.213V1070-2013
201180048655.0	China P.R.	Pending	Aperiodic channel quality indicator report in carrier aggregation	ATIS.3GPP.36.213V1070-2013
11752678.0	European Patent Convention	Pending	Aperiodic channel quality indicator report in carrier aggregation	ATIS.3GPP.36.213V1070-2013
381/MUMNP/2013	India	Pending	Aperiodic channel quality indicator report in carrier aggregation	ATIS.3GPP.36.213V1070-2013
2013-524890	Japan	Pending	Aperiodic channel quality indicator report in carrier aggregation	ATIS.3GPP.36.213V1070-2013
10-1426784	Republic of Korea	Granted	Aperiodic channel quality indicator report in carrier aggregation	ATIS.3GPP.36.213V1070-2013
8,600,426	United States	Granted	Power control on a deactivated component carrier	ATIS.3GPP.36.213V1070-2013
201180042399.4	China P.R.	Pending	Power control on a deactivated component carrier	ATIS.3GPP.36.213V1070-2013
11757475.6	European Patent Convention	Pending	Power control on a deactivated component carrier	ATIS.3GPP.36.213V1070-2013
1033/CHENP/2013	India	Pending	Power control on a deactivated component carrier	ATIS.3GPP.36.213V1070-2013
2013-527317	Japan	Pending	Power control on a deactivated component carrier	ATIS.3GPP.36.213V1070-2013
10-2013-7008309	Republic of Korea	Pending	Power control on a deactivated component carrier	ATIS.3GPP.36.213V1070-2013
13/208,106	United States	Pending	Channel state information feedback for carrier aggregation	ATIS.3GPP.36.213V1070-2013

201180049713.1	China P.R.	Pending	Channel state information feedback for carrier aggregation	ATIS.3GPP.36.213V1070-2013
11752679.8	European Patent Convention	Pending	Channel state information feedback for carrier aggregation	ATIS.3GPP.36.213V1070-2013
1433/CHENP/2013	India	Pending	Channel state information feedback for carrier aggregation	ATIS.3GPP.36.213V1070-2013
2013-524891	Japan	Pending	Channel state information feedback for carrier aggregation	ATIS.3GPP.36.213V1070-2013
10-2013-7006814	Republic of Korea	Pending	Channel state information feedback for carrier aggregation	ATIS.3GPP.36.213V1070-2013
13/205,559	United States	Pending	Representation groups for network streaming of coded multimedia data	ATIS.3GPP.26.247V1120-2014
P110102898	Argentina	Pending	Manifest file updates for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
201180039437.0	China P.R.	Pending	Media representation groups for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
11746402.4	European Patent Convention	Pending	Media representation groups for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
1341/CHENP/2013	India	Pending	Media representation groups for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
2013-524180	Japan	Pending	Media representation groups for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
2013-7006119	Republic of Korea	Pending	Media representation groups for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
100128448	Taiwan	Pending	Manifest file updates for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
13/205,565	United States	Pending	Trick modes for network streaming of coded multimedia data	ATIS.3GPP.26.247V1120-2014
135/2013	United Arab Emirates	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
P110102900	Argentina	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
2011289511	Australia	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
BR1120130026863	Brazil	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
2807156	Canada	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
201180039093.3	China P.R.	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
13108752.6	Hong Kong	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
11748529.2	European Patent Convention	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
W-00201300546	Indonesia	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
224449	Israel	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
1387/CHENP/2013	India	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
5612211	Japan	Granted	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
2013-7006118	Republic of Korea	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
PI2013000395	Malaysia	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
1-2013-500262	Philippines	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
2013110285	Russian Federation	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
201300695-2	Singapore	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
1301000642	Thailand	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
100128446	Taiwan	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
201302836	Ukraine	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014
1-2013-00745	Vietnam	Pending	Trick modes for network streaming of coded video data	ATIS.3GPP.26.247V1120-2014

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13/206,970	United States	Pending	Physical uplink control channel resource allocation for multiple component carriers	ATIS.3GPP.36.213V1070-2013
BR1120130035501	Brazil	Pending	Physical uplink control channel resource allocation for multiple component carriers	ATIS.3GPP.36.213V1070-2013
201180049700.4	China P.R.	Pending	Physical uplink control channel resource allocation for multiple component carriers	ATIS.3GPP.36.213V1070-2013
11752677.2	European Patent Convention	Pending	Physical uplink control channel resource allocation for multiple component carriers	ATIS.3GPP.36.213V1070-2013
1432/CHENP/2013	India	Pending	Physical uplink control channel resource allocation for multiple component carriers	ATIS.3GPP.36.213V1070-2013
2013-524871	Japan	Pending	Physical uplink control channel resource allocation for multiple component carriers	ATIS.3GPP.36.213V1070-2013
10-2013-7006822	Republic of Korea	Pending	Physical uplink control channel resource allocation for multiple component carriers	ATIS.3GPP.36.213V1070-2013
8,599,763	United States	Granted	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.211V3120-2003
201180039016.8	China P.R.	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.211V3120-2003
11752386.0	European Patent Convention	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.211V3120-2003
724/CHENP/2013	India	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.211V3120-2003
5572762	Japan	Granted	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.211V3120-2003
10-2013-7006733	Republic of Korea	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.211V3120-2003
8,599,763	United States	Granted	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.214V3120-2004
201180039016.8	China P.R.	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.214V3120-2004
11752386.0	European Patent Convention	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.214V3120-2004
724/CHENP/2013	India	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.214V3120-2004
5572762	Japan	Granted	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.214V3120-2004
10-2013-7006733	Republic of Korea	Pending	Timing control in a multi-point high speed downlink packet access network	T1.3GPP.25.214V3120-2004
8,780,766	United States	Granted	Interleaving for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
201180048204.7	China P.R.	Pending	Interleaving for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013

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1284/CHENP/2013	India	Pending	Interleaving for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
5620004	Japan	Granted	Interleaving for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
10-2013-7006817	Republic of Korea	Pending	Interleaving for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
13/210,102	United States	Pending	Search space design for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
201180046823.2	China P.R.	Pending	Search space design for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
11767490.3	European Patent Convention	Pending	Search space design for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
1187/CHENP/2013	India	Pending	Search space design for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
2013-524934	Japan	Pending	Search space design for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
10-2013-7006544	Republic of Korea	Pending	Search space design for relay physical downlink control channel (R-PDCCH)	ATIS.3GPP.36.216V1031-2013
8,675,560	United States	Granted	UE receiver reference signal processing that utilizes resource partitioning information	ATIS.3GPP.36.133V10100-2013
201180042289.8	China P.R.	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
11757495.4	European Patent Convention	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
13190682.8	European Patent Convention	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
1703/CHENP/2013	India	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
2013-527367	Japan	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
2014-147946	Japan	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
10-2013-7008551	Republic of Korea	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
10-2014-7017869	Republic of Korea	Pending	Resource partitioning	ATIS.3GPP.36.133V10100-2013
8,675,560	United States	Granted	UE receiver reference signal processing that utilizes resource partitioning information	ATIS.3GPP.36.213V1070-2013
201180042289.8	China P.R.	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
11757495.4	European Patent Convention	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
13190682.8	European Patent Convention	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
1703/CHENP/2013	India	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
2013-527367	Japan	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
2014-147946	Japan	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
10-2013-7008551	Republic of Korea	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
10-2014-7017869	Republic of Korea	Pending	Resource partitioning	ATIS.3GPP.36.213V1070-2013
8,670,410	United States	Granted	Uplink control channel resource mapping for carrier aggregation	ATIS.3GPP.36.213V1070-2013
201180044333.9	China P.R.	Pending	Uplink control channel resource mapping for carrier aggregation	ATIS.3GPP.36.213V1070-2013
11764036.7	European Patent Convention	Pending	Uplink control channel resource mapping for carrier aggregation	ATIS.3GPP.36.213V1070-2013
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2013-529345	Japan	Pending	Uplink control channel resource mapping for carrier aggregation	ATIS.3GPP.36.213V1070-2013

10-2013-7009756	Republic of Korea	Pending	Uplink control channel resource mapping for carrier aggregation	ATIS.3GPP.36.213V1070-2013
100133411	Taiwan	Pending	Uplink control channel resource mapping for carrier aggregation	ATIS.3GPP.36.213V1070-2013
13/294,135	United States	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.24.008V1160-2014
BR1120130120584	Brazil	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.24.008V1160-2014
201180055585.1	China P.R.	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.24.008V1160-2014
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3377/CHENP/2013	India	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.24.008V1160-2014
2013-539919	Japan	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.24.008V1160-2014
10-2013-7015467	Republic of Korea	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.24.008V1160-2014
100141903	Taiwan	Pending	Methods and apparatus for transmitting and receiving secure and non-secure data	ATIS.3GPP.24.008V1160-2014
13/247,584	United States	Pending	Aperiodic SRS for carrier aggregation	ATIS.3GPP.36.213V1070-2013
201180057016.0	China P.R.	Pending	Aperiodic SRS for carrier aggregation	ATIS.3GPP.36.213V1070-2013
11770951.9	European Patent Convention	Pending	Aperiodic SRS for carrier aggregation	ATIS.3GPP.36.213V1070-2013
2606/CHENP/2013	India	Pending	Aperiodic SRS for carrier aggregation	ATIS.3GPP.36.213V1070-2013
2013-531874	Japan	Pending	Aperiodic SRS for carrier aggregation	ATIS.3GPP.36.213V1070-2013
10-2013-7011070	Republic of Korea	Pending	Aperiodic SRS for carrier aggregation	ATIS.3GPP.36.213V1070-2013
13/251,788	United States	Pending	Devices for determining a reference subframe and determining a mode	ATIS.3GPP.36.213V1070-2013
BR1120130073004	Brazil	Pending	Devices for determining a reference subframe and determining a mode	ATIS.3GPP.36.213V1070-2013
201180048128.X	China P.R.	Pending	Devices for determining a reference subframe for feedback reporting and determining a feedback mode	ATIS.3GPP.36.213V1070-2013
11770969.1	European Patent Convention	Pending	Devices for determining a reference subframe for feedback reporting and determining a feedback mode	ATIS.3GPP.36.213V1070-2013
2560/CHENP/2013	India	Pending	Devices for determining a reference subframe for feedback reporting and determining a feedback mode	ATIS.3GPP.36.213V1070-2013
2013-532872	Japan	Pending	Devices for determining a reference subframe and determining a mode	ATIS.3GPP.36.213V1070-2013
10-2013-7011611	Republic of Korea	Pending	Devices for determining a reference subframe for feedback reporting and determining a feedback mode	ATIS.3GPP.36.213V1070-2013
13/247,973	United States	Pending	Power headroom for simultaneous voice and long term evolution	ATIS.3GPP.36.331V1090-2013
201180057451.3	China P.R.	Pending	Power headroom for simultaneous voice and long term evolution	ATIS.3GPP.36.331V1090-2013
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2491/CHENP/2013	India	Pending	Power headroom for simultaneous voice and long term evolution	ATIS.3GPP.36.331V1090-2013
2013-531877	Japan	Pending	Power headroom for simultaneous voice and long term evolution	ATIS.3GPP.36.331V1090-2013
10-2013-7011254	Republic of Korea	Pending	Power headroom for simultaneous voice and long term evolution	ATIS.3GPP.36.331V1090-2013
13/251,943	United States	Pending	Method and apparatus for PUCCH and PUSCH encoding	ATIS.3GPP.36.212V1070-2013
201180049169.0	China P.R.	Pending	Method and apparatus for PUCCH and PUSCH dual code block encoding and interleaving	ATIS.3GPP.36.212V1070-2013
11773149.7	European Patent Convention	Pending	Method and apparatus for PUCCH and PUSCH encoding	ATIS.3GPP.36.212V1070-2013
2564/CHENP/2013	India	Pending	Method and apparatus for PUCCH and PUSCH dual code block encoding and interleaving	ATIS.3GPP.36.212V1070-2013
2013-532868	Japan	Pending	Method and apparatus for PUCCH and PUSCH dual code block encoding and interleaving	ATIS.3GPP.36.212V1070-2013
10-2013-7011413	Republic of Korea	Pending	Method and apparatus for PUCCH and PUSCH encoding	ATIS.3GPP.36.212V1070-2013
8,804,639	United States	Granted	Control channel resources for multi-bit ACK/NAK	ATIS.3GPP.36.213V1070-2013
201180047915.2	China P.R.	Pending	Control channel resources for multi-bit ACK/NAK	ATIS.3GPP.36.213V1070-2013
11770971.7	European Patent Convention	Pending	Control channel resources for multi-bit ACK/NAK	ATIS.3GPP.36.213V1070-2013
2066/CHENP/2013	India	Pending	Control channel resources for multi-bit ACK/NAK	ATIS.3GPP.36.213V1070-2013
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10-2013-7011432	Republic of Korea	Pending	Control channel resources for multi-bit ACK/NAK	ATIS.3GPP.36.213V1070-2013
13/267,715	United States	Pending	Reference signal configuration and relay downlink control channel	ATIS.3GPP.36.216V1031-2013
201180058024.7	China P.R.	Pending	Reference signal configuration and relay downlink control channel	ATIS.3GPP.36.216V1031-2013
11771365.1	European Patent Convention	Pending	Reference signal configuration and relay downlink control channel	ATIS.3GPP.36.216V1031-2013
2718/CHENP/2013	India	Pending	Reference signal configuration and relay downlink control channel	ATIS.3GPP.36.216V1031-2013
2013-532970	Japan	Pending	Reference signal configuration and relay downlink control channel	ATIS.3GPP.36.216V1031-2013
10-2013-7011863	Republic of Korea	Pending	Reference signal configuration and relay downlink control channel	ATIS.3GPP.36.216V1031-2013
13/294,138	United States	Pending	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.24.008V1160-2014
201180054301.7	China P.R.	Pending	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.24.008V1160-2014
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2893/CHENP/2013	India	Pending	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.24.008V1160-2014
5410645	Japan	Granted	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.24.008V1160-2014
10-2013-7015004	Republic of Korea	Pending	Method and apparatus for assigning wireless network packet resources to wireless terminals	ATIS.3GPP.24.008V1160-2014
13/269,480	United States	Pending	Resource assignments for uplink control channel	ATIS.3GPP.36.211V1070-2013
201180049152.5	China P.R.	Pending	Resource assignments for uplink control channel	ATIS.3GPP.36.211V1070-2013
11776276.5	European Patent Convention	Pending	Resource assignments for uplink control channel	ATIS.3GPP.36.211V1070-2013
537/MUMNP/2013	India	Pending	Resource assignments for uplink control channel	ATIS.3GPP.36.211V1070-2013
2013-533918	Japan	Pending	Resource assignments for uplink control channel	ATIS.3GPP.36.211V1070-2013

10-2013-7012325	Republic of Korea	Pending	Resource assignments for uplink control channel	ATIS.3GPP.36.211V1070-2013
100136848	Taiwan	Pending	Resource assignments for uplink control channel	ATIS.3GPP.36.211V1070-2013
8,861,408	United States	Granted	Hybrid automatic repeat request feedback transmission in a multi component-carrier communication system	ATIS.3GPP.36.213V1070-2013
201180052860.4	China P.R.	Pending	Hybrid automatic repeat request feedback transmission in a multi component-carrier communication system using scheduling request resources	ATIS.3GPP.36.213V1070-2013
11782330.2	European Patent Convention	Pending	Hybrid automatic repeat request feedback transmission in a multi component-carrier communication system using scheduling request resources	ATIS.3GPP.36.213V1070-2013
721/MUMNP/2013	India	Pending	Hybrid automatic repeat request feedback transmission in a multi component-carrier communication system using scheduling request resources	ATIS.3GPP.36.213V1070-2013
2013-537736	Japan	Pending	Hybrid automatic repeat request feedback transmission in a multi component-carrier communication system using scheduling request resources	ATIS.3GPP.36.213V1070-2013
10-2013-7014248	Republic of Korea	Pending	Hybrid automatic repeat request feedback transmission in a multi component-carrier communication system using scheduling request resources	ATIS.3GPP.36.213V1070-2013
13/277,177	United States	Pending	Method and apparatus for restricted measuring in a wireless network	ATIS.3GPP.36.331V1090-2013
471/2013	United Arab Emirates	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
2011323872	Australia	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
BR1120130100672	Brazil	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
2815773	Canada	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
201180060954.6	China P.R.	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
13111778.0	Hong Kong	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
11781704.9	European Patent Convention	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
W-00201302142	Indonesia	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
3369/CHENP/2013	India	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
2013-537689	Japan	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
10-2013-7014245	Republic of Korea	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
PI 2013001558	Malaysia	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
1-2013-500869	Philippines	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
2013125478	Russian Federation	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
1301002272	Thailand	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
1-2013-01671	Vietnam	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
2013/04010	South Africa	Pending	Restricted resource in a wireless network	ATIS.3GPP.36.331V1090-2013
13/287,009	United States	Pending	Interaction of PDSCH resource mapping, CSI-RS, and muting	ATIS.3GPP.36.211V1070-2013
461/2013	United Arab Emirates	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
BR1120130104929	Brazil	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
2815214	Canada	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013

201180060476.9	China P.R.	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
14100967.3	Hong Kong	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
11787962.7	European Patent Convention	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
W-00201302392	Indonesia	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
3115/CHENP/2013	India	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
5628440	Japan	Granted	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
10-2013-7014085	Republic of Korea	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
PI2013001571	Malaysia	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
1-2013-500755	Philippines	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
2013125520	Russian Federation	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
1301002308	Thailand	Pending	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
2013/03771	South Africa	Granted	Method and apparatus for rate matching with muting	ATIS.3GPP.36.211V1070-2013
8,565,205	United States	Granted	Specific absorption rate backoff in power headroom report	ATIS.3GPP.36.321V1080-2013
P110104143	Argentina	Pending	Specific absorption rate backoff in power headroom report	ATIS.3GPP.36.321V1080-2013
201180061947.8	China P.R.	Pending	Method and apparatus for specific absorption rate backoff in power headroom report	ATIS.3GPP.36.321V1080-2013
11785221.0	European Patent Convention	Pending	Method and apparatus for specific absorption rate backoff in power headroom report	ATIS.3GPP.36.321V1080-2013
848/MUMNP/2013	India	Pending	Method and apparatus for specific absorption rate backoff in power headroom report	ATIS.3GPP.36.321V1080-2013
2013-537815	Japan	Pending	Method and apparatus for specific absorption rate backoff in power headroom report	ATIS.3GPP.36.321V1080-2013
10-2013-7014402	Republic of Korea	Pending	Method and apparatus for specific absorption rate backoff in power headroom report	ATIS.3GPP.36.321V1080-2013
I451785	Taiwan	Granted	Method and apparatus for specific absorption rate backoff in power headroom report, and computer program product for recording related instructions thereon	ATIS.3GPP.36.321V1080-2013
13/290,706	United States	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.306V1090-2013
BR1120130108355	Brazil	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.306V1090-2013
201180061970.7	China P.R.	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.306V1090-2013
11788676.2	European Patent Convention	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.306V1090-2013
3165/CHENP/2013	India	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.306V1090-2013
2013-538835	Japan	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.306V1090-2013
10-2013-7014832	Republic of Korea	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.306V1090-2013
13/290,706	United States	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.331V1090-2013
BR1120130108355	Brazil	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.331V1090-2013
201180061970.7	China P.R.	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.331V1090-2013
11788676.2	European Patent Convention	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.331V1090-2013
3165/CHENP/2013	India	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.331V1090-2013
2013-538835	Japan	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.331V1090-2013
10-2013-7014832	Republic of Korea	Pending	Inter-frequency measurement control in a multi-carrier system	ATIS.3GPP.36.331V1090-2013

13/290,328	United States	Pending	CQI-only transmission on the PUSCH	ATIS.3GPP.36.213V1070-2013
201180062355.8	China P.R.	Pending	CQI-only transmission on the PUSCH	ATIS.3GPP.36.213V1070-2013
11788665.5	European Patent Convention	Pending	CQI-only transmission on the PUSCH	ATIS.3GPP.36.213V1070-2013
839/MUMNP/2013	India	Pending	CQI-only transmission on the PUSCH	ATIS.3GPP.36.213V1070-2013
2013-538828	Japan	Pending	CQI-only transmission on the PUSCH	ATIS.3GPP.36.213V1070-2013
10-2013-7014697	Republic of Korea	Pending	CQI-only transmission on the PUSCH	ATIS.3GPP.36.213V1070-2013
13/291,040	United States	Pending	System and method for uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
495/2013	United Arab Emirates	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
BR1120130114169	Brazil	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2815532	Canada	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
201180060506.6	China P.R.	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
11788673.9	European Patent Convention	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
W-00201302494	Indonesia	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
225784	Israel	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
792/MUMNP/2013	India	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
5624220	Japan	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
10-2013-7014902	Republic of Korea	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
PI 2013001455	Malaysia	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
1-2013-500816	Philippines	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2013126529	Russian Federation	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
1301002397	Thailand	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2013/03838	South Africa	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
13/291,040	United States	Pending	System and method for uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004

495/2013	United Arab Emirates	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
BR1120130114169	Brazil	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
2815532	Canada	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
201180060506.6	China P.R.	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
11788673.9	European Patent Convention	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
W-00201302494	Indonesia	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
225784	Israel	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
792/MUMNP/2013	India	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
5624220	Japan	Granted	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
10-2013-7014902	Republic of Korea	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
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1-2013-500816	Philippines	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
2013126529	Russian Federation	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
1301002397	Thailand	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
2013/03838	South Africa	Pending	System and method for traffic to pilot power determination in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
13/291,045	United States	Pending	System and method for uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
BR1120130114070	Brazil	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2815533	Canada	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
201180060481.X	China P.R.	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
11788674.7	European Patent Convention	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004

W-00201302490	Indonesia	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
225836	Israel	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
791/MUMNP/2013	India	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
5629834	Japan	Granted	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
10-2013-7014901	Republic of Korea	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
PI 2013001453	Malaysia	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
1-2013-500894	Philippines	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2013126478	Russian Federation	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
1301002398	Thailand	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2013/04048	South Africa	Pending	System and method for transmitting control information in an uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
13/291,051	United States	Pending	System and method for uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
498/2013	United Arab Emirates	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
BR1120130114223	Brazil	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
201180060480.5	China P.R.	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
11788675.4	European Patent Convention	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
W-00201302496	Indonesia	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
834/MUMNP/2013	India	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2013-537941	Japan	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
10-2013-7014898	Republic of Korea	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
PI 2013001454	Malaysia	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004

2013126440	Russian Federation	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
1301002399	Thailand	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
2013/03891	South Africa	Pending	System and method for secondary control channel boosting during uplink multiple input multiple output transmission	T1.3GPP.25.213V390-2004
13/291,056	United States	Pending	System and method for uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
201180060232.0	China P.R.	Pending	System and method for outer and inner power control loop in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
11788677.0	European Patent Convention	Pending	System and method for outer and inner power control loop in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
784/MUMNP/2013	India	Pending	System and method for outer and inner power control loop in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
2013-537942	Japan	Pending	System and method for outer and inner power control loop in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
10-2013-7014897	Republic of Korea	Pending	System and method for outer and inner power control loop in uplink multiple input multiple output transmission	T1.3GPP.25.214V3120-2004
13/291,756	United States	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
201180062445.7	China P.R.	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
11788694.5	European Patent Convention	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
13171444.6	European Patent Convention	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
13171443.8	European Patent Convention	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
3689/CHENP/2013	India	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
2013-538859	Japan	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
10-2013-7014909	Republic of Korea	Pending	Carrier grouping for power headroom report	ATIS.3GPP.36.101V10100-2013
13/290,979	United States	Pending	Method and apparatus for improving uplink transmission mode configuration	ATIS.3GPP.36.213V1070-2013
201180064308.7	China P.R.	Pending	Method and apparatus for improving uplink transmission mode configuration	ATIS.3GPP.36.213V1070-2013
11788678.8	European Patent Convention	Pending	Method and apparatus for improving uplink transmission mode configuration	ATIS.3GPP.36.213V1070-2013
10075/DELNP/2013	India	Pending	Method and apparatus for improving uplink transmission mode configuration	ATIS.3GPP.36.213V1070-2013
2013-538836	Japan	Pending	Method and apparatus for improving uplink transmission mode configuration	ATIS.3GPP.36.213V1070-2013
13/293,086	United States	Pending	Acknowledgement / negative acknowledgement feedback for TDD	ATIS.3GPP.36.213V1070-2013
201180054333.7	China P.R.	Pending	Improved acknowledgement / negative acknowledgement feedback for TDD	ATIS.3GPP.36.213V1070-2013
11788703.4	European Patent Convention	Pending	Improved acknowledgement / negative acknowledgement feedback for TDD	ATIS.3GPP.36.213V1070-2013

2940/CHENP/2013	India	Pending	Improved acknowledgement / negative acknowledgement feedback for TDD	ATIS.3GPP.36.213V1070-2013
2013-538878	Japan	Pending	Improved acknowledgement / negative acknowledgement feedback for TDD	ATIS.3GPP.36.213V1070-2013
10-2013-7015122	Republic of Korea	Pending	Improved acknowledgement / negative acknowledgement feedback for TDD	ATIS.3GPP.36.213V1070-2013
8,830,883	United States	Granted	Method and apparatus for improving acknowledgement/negative acknowledgement feedback	ATIS.3GPP.36.213V1070-2013
201180055055.7	China P.R.	Pending	Method and apparatus for improving acknowledgement/negative acknowledgement feedback	ATIS.3GPP.36.213V1070-2013
11788732.3	European Patent Convention	Pending	Method and apparatus for improving acknowledgement/negative acknowledgement feedback	ATIS.3GPP.36.213V1070-2013
4057/CHENP/2013	India	Pending	Method and apparatus for improving acknowledgement/negative acknowledgement feedback	ATIS.3GPP.36.213V1070-2013
2013-539954	Japan	Pending	Method and apparatus for improving acknowledgement/negative acknowledgement feedback	ATIS.3GPP.36.213V1070-2013
2013-7015376	Republic of Korea	Pending	Method and apparatus for improving acknowledgement/negative acknowledgement feedback	ATIS.3GPP.36.213V1070-2013
100141629	Taiwan	Pending	Method and apparatus for improving acknowledgement/negative acknowledgement feedback	ATIS.3GPP.36.213V1070-2013
13/332,701	United States	Pending	Interference randomization for uplink signaling	ATIS.3GPP.36.211V1070-2013
201180062041.8	China P.R.	Pending	Interference randomization for uplink signaling	ATIS.3GPP.36.211V1070-2013
11808114.0	European Patent Convention	Pending	Interference randomization for uplink signaling	ATIS.3GPP.36.211V1070-2013
4316/CHENP/2013	India	Pending	Interference randomization for uplink signaling	ATIS.3GPP.36.211V1070-2013
2013-546429	Japan	Pending	Interference randomization for uplink signaling	ATIS.3GPP.36.211V1070-2013
10-2013-7019543	Republic of Korea	Pending	Interference randomization for uplink signaling	ATIS.3GPP.36.211V1070-2013
13/351,156	United States	Pending	Rate matching for coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
BR1120130181249	Brazil	Pending	Rate matching for coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
201280005618.6	China P.R.	Pending	Rate matching for coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
12702359.6	European Patent Convention	Pending	Rate matching for coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
5168/CHENP/2013	India	Pending	Rate matching for coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
2013-550542	Japan	Pending	Rate matching for coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
10-2013-7021629	Republic of Korea	Pending	Rate matching for coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
13/346,590	United States	Pending	Apparatus and method for uplink closed loop transmit diversity	T1.3GPP.25.214V3120-2004
13/344,222	United States	Pending	Closed loop transmit diversity in continuous packet connectivity	T1.3GPP.25.214V3120-2004
13/354,020	United States	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013
201280013786.X	China P.R.	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013
12705730.5	European Patent Convention	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013
14020052.8	European Patent Convention	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013
5939/CHENP/2013	India	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013

2013-550635	Japan	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013
2014-228360	Japan	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013
10-2013-7021941	Republic of Korea	Pending	Method and apparatus for determining timing information for cells	ATIS.3GPP.36.331V1090-2013
13/421,819	United States	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
BR1120130238011	Brazil	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
201280023565.0	China P.R.	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
12712484.0	European Patent Convention	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
14176291.4	European Patent Convention	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
1784/MUMNP/2013	India	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
2014-511360	Japan	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
10-2013-7027404	Republic of Korea	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.300V1090-2013
13/421,819	United States	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.304V1060-2013
BR1120130238011	Brazil	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.304V1060-2013
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14176291.4	European Patent Convention	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.304V1060-2013
1784/MUMNP/2013	India	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.304V1060-2013
2014-511360	Japan	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.304V1060-2013
10-2013-7027404	Republic of Korea	Pending	Target cell selection for multimedia broadcast multicast service continuity	ATIS.3GPP.36.304V1060-2013
13/336,599	United States	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013
201180069021.3	China P.R.	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013
11813930.2	European Patent Convention	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013

6400/CHENP/2013	India	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013
2013-553428	Japan	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013
10-2013-7024107	Republic of Korea	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013
13/336,599	United States	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
201180069021.3	China P.R.	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
11813930.2	European Patent Convention	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
6400/CHENP/2013	India	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
2013-553428	Japan	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
10-2013-7024107	Republic of Korea	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
13/401,791	United States	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
201280017580.4	China P.R.	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
12706423.6	European Patent Convention	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
6616/CHENP/2013	India	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
2013-554689	Japan	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
10-2013-7024929	Republic of Korea	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
10-2014-7032903	Republic of Korea	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
10-2014-7032905	Republic of Korea	Pending	Uplink transmit antenna selection in carrier aggregation	ATIS.3GPP.36.213V1070-2013
13/406,344	United States	Pending	Methods and apparatus for employing different capabilities for different duplexing modes	ATIS.3GPP.36.331V1090-2013
201280010852.8	China P.R.	Pending	Methods and apparatus for employing different capabilities for different duplexing modes	ATIS.3GPP.36.331V1090-2013
12708624.7	European Patent Convention	Pending	Methods and apparatus for employing different capabilities for different duplexing modes	ATIS.3GPP.36.331V1090-2013
6620/CHENP/2013	India	Pending	Methods and apparatus for employing different capabilities for different duplexing modes	ATIS.3GPP.36.331V1090-2013
2013-556811	Japan	Pending	Methods and apparatus for employing different capabilities for different duplexing modes	ATIS.3GPP.36.331V1090-2013
10-2013-7025550	Republic of Korea	Pending	Methods and apparatus for employing different capabilities for different duplexing modes	ATIS.3GPP.36.331V1090-2013
13/428,189	United States	Pending	Methods and apparatus for effective allocation of adaptive resource partitioning information (ARPI) to pico enhanced Node B by macro enhanced Node B in heterogeneous network	ATIS.3GPP.36.423V1050-2013

201280022449.7	China P.R.	Pending	Methods and apparatus for effective allocation of adaptive resource partitioning information (ARPI) to pico enhanced Node B by macro enhanced Node B in heterogeneous network	ATIS.3GPP.36.423V1050-2013
12711332.2	European Patent Convention	Pending	Methods and apparatus for effective allocation of adaptive resource partitioning information (ARPI) to pico enhanced Node B by macro enhanced Node B in heterogeneous network	ATIS.3GPP.36.423V1050-2013
7624/CHENP/2013	India	Pending	Methods and apparatus for effective allocation of adaptive resource partitioning information (ARPI) to pico enhanced Node B by macro enhanced Node B in heterogeneous network	ATIS.3GPP.36.423V1050-2013
2014-501295	Japan	Pending	Methods and apparatus for effective allocation of adaptive resource partitioning information (ARPI) to pico enhanced Node B by macro enhanced Node B in heterogeneous network	ATIS.3GPP.36.423V1050-2013
10-2013-7027434	Republic of Korea	Pending	Methods and apparatus for effective allocation of adaptive resource partitioning information (ARPI) to pico enhanced Node B by macro enhanced Node B in heterogeneous network	ATIS.3GPP.36.423V1050-2013
13/443,387	United States	Pending	Transmission of control information for FDD-TDD carrier aggregation	ATIS.3GPP.36.212V1070-2013
201280025114.0	China P.R.	Pending	Transmission of control information for FDD-TDD carrier aggregation	ATIS.3GPP.36.212V1070-2013
12717528.9	European Patent Convention	Pending	Transmission of control information for FDD-TDD carrier aggregation	ATIS.3GPP.36.212V1070-2013
7918/CHENP/2013	India	Pending	Transmission of control information for FDD-TDD carrier aggregation	ATIS.3GPP.36.212V1070-2013
2014-505247	Japan	Pending	Transmission of control information for FDD-TDD carrier aggregation	ATIS.3GPP.36.212V1070-2013
10-2013-7029183	Republic of Korea	Pending	Transmission of control information for FDD-TDD carrier aggregation	ATIS.3GPP.36.212V1070-2013
13/438,109	United States	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	T1.3GPP.25.214V3120-2004
BR1120130257288	Brazil	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	T1.3GPP.25.214V3120-2004
201280023773.0	China P.R.	Pending	System and method for supporting concurrent deployment of multiple transmission time intervals for uplink transmissions by user equipment in a non-dedicated channel state	T1.3GPP.25.214V3120-2004
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8,570,971	United States	Granted	Systems and methods for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
BR1120130285630	Brazil	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
2834854	Canada	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
201280021900.3	China P.R.	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
12721121.7	European Patent Convention	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
8437/CHENP/2013	India	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
2014-510375	Japan	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
10-2013-7032310	Republic of Korea	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
2013149273	Russian Federation	Pending	System and method for configuring remote radio heads	ATIS.3GPP.36.211V1070-2013
13/455,025	United States	Pending	System and method for managing invalid reference subframes for channel state information feedback	ATIS.3GPP.36.213V1070-2013
201280020343.3	China P.R.	Pending	System and method for managing invalid reference subframes for channel state information feedback	ATIS.3GPP.36.213V1070-2013
12718849.8	European Patent Convention	Pending	System and method for managing invalid reference subframes for channel state information feedback	ATIS.3GPP.36.213V1070-2013
7946/CHENP/2013	India	Pending	System and method for managing invalid reference subframes for channel state information feedback	ATIS.3GPP.36.213V1070-2013
2014-508518	Japan	Pending	System and method for managing invalid reference subframes for channel state information feedback	ATIS.3GPP.36.213V1070-2013
10-2013-7031683	Republic of Korea	Pending	System and method for managing invalid reference subframes for channel state information feedback	ATIS.3GPP.36.213V1070-2013
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201280044128.7	China P.R.	Pending	Downlink control with control-less subframes	ATIS.3GPP.36.213V1070-2013
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101125192	Taiwan	Pending	Downlink control with control-less subframes	ATIS.3GPP.36.213V1070-2013
13/455,010	United States	Pending	Channel state information feedback for carrier aggregation with flexible carrier configurations	ATIS.3GPP.36.213V1070-2013
BR1120130301155	Brazil	Pending	A channel state information feedback for carrier aggregation with flexible carrier configurations	ATIS.3GPP.36.213V1070-2013
2835416	Canada	Pending	A channel state information feedback for carrier aggregation with flexible carrier configurations	ATIS.3GPP.36.213V1070-2013
201280025111.7	China P.R.	Pending	A channel state information feedback for carrier aggregation with flexible carrier configurations	ATIS.3GPP.36.213V1070-2013
12719207.8	European Patent Convention	Pending	A channel state information feedback for carrier aggregation with flexible carrier configurations	ATIS.3GPP.36.213V1070-2013

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13/456,124	United States	Pending	System and method for synchronized radio link control and media access control in a wireless communication network	ATIS.3GPP.36.300V1090-2013
13/455,014	United States	Pending	Power headroom reporting related to power management maximum power reduction	ATIS.3GPP.36.321V1080-2013
BR1120130285605	Brazil	Pending	Power headroom reporting related to power management maximum power reduction	ATIS.3GPP.36.321V1080-2013
2834561	Canada	Pending	Power headroom reporting related to power management maximum power reduction	ATIS.3GPP.36.321V1080-2013
201280021928.7	China P.R.	Pending	Power headroom reporting related to power management maximum power reduction	ATIS.3GPP.36.321V1080-2013
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7945/CHENP/2013	India	Pending	Power headroom reporting related to power management maximum power reduction	ATIS.3GPP.36.321V1080-2013
2014-510380	Japan	Pending	Power headroom reporting related to power management maximum power reduction	ATIS.3GPP.36.321V1080-2013
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2013154121	Russian Federation	Pending	Power headroom reporting related to power management maximum power reduction	ATIS.3GPP.36.321V1080-2013
13/565,704	United States	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
BR1120140021481	Brazil	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
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201280044562.5	China P.R.	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
12750916.4	European Patent Convention	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
14191870.6	European Patent Convention	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
83/MUMNP/2014	India	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
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10-2014-7004899	Republic of Korea	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
2014106858	Russian Federation	Pending	Allocating physical hybrid ARQ indicator channel (PHICH) resources	ATIS.3GPP.36.213V1070-2013
13/558,110	United States	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013

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2012286795	Australia	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
BR1120140018928	Brazil	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
2842693	Canada	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
201280044559.3	China P.R.	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
14110738.0	Hong Kong	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
12743845.5	European Patent Convention	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
P-002014001012	Indonesia	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
230432	Israel	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
907/CHENP/2014	India	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
2014-522996	Japan	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
10-2014-7004733	Republic of Korea	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
MX/a/2014/000979	Mexico	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
PI 2014000171	Malaysia	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
1-2014-500173	Philippines	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
2014106992	Russian Federation	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
201400284-4	Singapore	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
1401000416	Thailand	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
a201401906	Ukraine	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013
1-2014-00643	Vietnam	Pending	Transmission of control information in a wireless network with carrier aggregation	ATIS.3GPP.36.213V1070-2013

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13/563,659	United States	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
BR1120140023816	Brazil	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
2843592	Canada	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
201280046291.7	China P.R.	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
12750507.1	European Patent Convention	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
137/MUMNP/2014	India	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
2014-524057	Japan	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
10-2014-7005784	Republic of Korea	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
2014107894	Russian Federation	Pending	Method and apparatus for transport of dynamic adaptive streaming over HTTP (DASH) initialization segment description fragments as user service description fragments	ATIS.3GPP.26.346V1140-2014
8,761,068	United States	Granted	Supporting DL triggered HS-DPCCH in a cell in CELL_FACH	T1.3GPP.25.212V3110-2003
BR1120140035121	Brazil	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.212V3110-2003
2844496	Canada	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.212V3110-2003
201280039899.7	China P.R.	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.212V3110-2003
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5619329	Japan	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.212V3110-2003
10-1451333	Republic of Korea	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.212V3110-2003
2014109987	Russian Federation	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.212V3110-2003
8,761,068	United States	Granted	Supporting DL triggered HS-DPCCH in a cell in CELL_FACH	T1.3GPP.25.214V3120-2004
BR1120140035121	Brazil	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
2844496	Canada	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
201280039899.7	China P.R.	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
12751227.5	European Patent Convention	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
126/MUMNP/2014	India	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
5619329	Japan	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
10-1451333	Republic of Korea	Granted	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
2014109987	Russian Federation	Pending	Supporting downlink, DL, triggered CQI feedback on the HS-DPCCH channel in a cell in cell_fach state	T1.3GPP.25.214V3120-2004
8,867,502	United States	Granted	Method and apparatus for application of precoder information at the UE in closed loop transmit diversity	T1.3GPP.25.214V3120-2004
201280039728.4	China P.R.	Pending	Method and apparatus for application of precoder information at the UE in closed loop transmit diversity	T1.3GPP.25.214V3120-2004
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88/MUMNP/2014	India	Pending	Method and apparatus for application of precoder information at the UE in closed loop transmit diversity	T1.3GPP.25.214V3120-2004
2014-525203	Japan	Pending	Method and apparatus for application of precoder information at the UE in closed loop transmit diversity	T1.3GPP.25.214V3120-2004
10-2014-7007029	Republic of Korea	Pending	Method and apparatus for application of precoder information at the UE in closed loop transmit diversity	T1.3GPP.25.214V3120-2004
1011129575	Taiwan	Pending	Method and apparatus for application of precoder information at the UE in closed loop transmit diversity	T1.3GPP.25.214V3120-2004
13/610,139	United States	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.321V1080-2013
201280051660.1	China P.R.	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.321V1080-2013

12766258.3	European Patent Convention	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.321V1080-2013
334/MUMNP/2014	India	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.321V1080-2013
2014-529981	Japan	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.321V1080-2013
10-2014-7009671	Republic of Korea	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.321V1080-2013
13/610,139	United States	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.331V1090-2013
201280051660.1	China P.R.	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.331V1090-2013
12766258.3	European Patent Convention	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.331V1090-2013
334/MUMNP/2014	India	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.331V1090-2013
2014-529981	Japan	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.331V1090-2013
10-2014-7009671	Republic of Korea	Pending	Support of multiple timing advance groups for user equipment in carrier aggregation in LTE	ATIS.3GPP.36.331V1090-2013
13/633,826	United States	Pending	Adaptive control channel design for balancing data payload size and decoding time	ATIS.3GPP.36.213V1070-2013
201280059117.6	China P.R.	Pending	Adaptive control channel design for balancing data payload size and decoding time	ATIS.3GPP.36.213V1070-2013
12823276.6	European Patent Convention	Pending	Adaptive control channel design for balancing data payload size and decoding time	ATIS.3GPP.36.213V1070-2013
2711/CHENP/2014	India	Pending	Adaptive control channel design for balancing data payload size and decoding time	ATIS.3GPP.36.213V1070-2013
2014-534538	Japan	Pending	Adaptive control channel design for balancing data payload size and decoding time	ATIS.3GPP.36.213V1070-2013
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13/632,563	United States	Pending	Uplink resource management under coordinated multipoint transmission	ATIS.3GPP.36.213V1070-2013
201280057993.5	China P.R.	Pending	Uplink resource management under coordinated multipoint transmission	ATIS.3GPP.36.213V1070-2013
12781216.2	European Patent Convention	Pending	Uplink resource management under coordinated multipoint transmission	ATIS.3GPP.36.213V1070-2013
2873/CHENP/2014	India	Pending	Uplink resource management under coordinated multipoint transmission	ATIS.3GPP.36.213V1070-2013

2014-534639	Japan	Pending	Uplink resource management under coordinated multipoint transmission	ATIS.3GPP.36.213V1070-2013
10-2014-7012114	Republic of Korea	Pending	Uplink resource management under coordinated multipoint transmission	ATIS.3GPP.36.213V1070-2013
13/633,789	United States	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.211V1070-2013
BR1120140079145	Brazil	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.211V1070-2013
201280048651.7	China P.R.	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.211V1070-2013
12799345.9	European Patent Convention	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.211V1070-2013
2118/CHENP/2014	India	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.211V1070-2013
2014-534545	Japan	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.211V1070-2013
2014-7011971	Republic of Korea	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.211V1070-2013
13/633,789	United States	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
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2014-7011971	Republic of Korea	Pending	Method and apparatus for uplink transmission power control and timing in coordinated multipoint transmission schemes	ATIS.3GPP.36.213V1070-2013
13/633,677	United States	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.211V1070-2013
201280047659.1	China P.R.	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.211V1070-2013
12791590.8	European Patent Convention	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.211V1070-2013
3143/CHENP/2014	India	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.211V1070-2013
2014-533489	Japan	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.211V1070-2013
2014-7011319	Republic of Korea	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.211V1070-2013
13/633,677	United States	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.213V1070-2013
201280047659.1	China P.R.	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.213V1070-2013
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3143/CHENP/2014	India	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.213V1070-2013
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13/633,677	United States	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.331V1090-2013
201280047659.1	China P.R.	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.331V1090-2013
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3143/CHENP/2014	India	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.331V1090-2013
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2014-7011319	Republic of Korea	Pending	Half-duplex/full-duplex operation for TDD carrier aggregation	ATIS.3GPP.36.331V1090-2013
13/671,404	United States	Pending	User equipment, base stations, and methods allowing for handling of colliding channel state information reports	ATIS.3GPP.36.213V1070-2013
201280054846.2	China P.R.	Pending	User equipment, base stations, and methods allowing for handling of colliding channel state information reports	ATIS.3GPP.36.213V1070-2013
12791918.1	European Patent Convention	Pending	User equipment, base stations, and methods allowing for handling of colliding channel state information reports	ATIS.3GPP.36.213V1070-2013
2921/CHENP/2014	India	Pending	User equipment, base stations, and methods allowing for handling of colliding channel state information reports	ATIS.3GPP.36.213V1070-2013
2014-540229	Japan	Pending	User equipment, base stations, and methods allowing for handling of colliding channel state information reports	ATIS.3GPP.36.213V1070-2013
10-2014-7012088	Republic of Korea	Pending	User equipment, base stations, and methods allowing for handling of colliding channel state information reports	ATIS.3GPP.36.213V1070-2013
13/823,706	United States	Pending	Methods and apparatus for updating the ue capability in an e-E-UTRAN	ATIS.3GPP.36.331V1090-2013
446/2014	United Arab Emirates	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
2011380412	Australia	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
BR112014010365.8	Brazil	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
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201180076165.1	China P.R.	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
11875182.5	European Patent Convention	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
P-00201403156	Indonesia	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
232260	Israel	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
891/MUMNP/2014	India	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
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10-2014-7015116	Republic of Korea	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
MX/a/2014/005357	Mexico	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
PI 2014701057	Malaysia	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
1-2014-500963	Philippines	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
2014122557	Russian Federation	Pending	Methods and apparatus for updating the UE capability in an E-UTRAN	ATIS.3GPP.36.331V1090-2013
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13/665,771	United States	Pending	Structure of enhanced physical downlink control channel (e-PDCCH) in long term evolution (LTE)	ATIS.3GPP.36.213V1070-2013

BR1120140100519	Brazil	Pending	Structure of enhanced physical downlink control channel (e-PDCCH) in long term evolution (LTE)	ATIS.3GPP.36.213V1070-2013
201280053137.2	China P.R.	Pending	Structure of enhanced physical downlink control channel (e-PDCCH) in long term evolution (LTE)	ATIS.3GPP.36.213V1070-2013
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2014-540064	Japan	Pending	Structure of enhanced physical downlink control channel (e-PDCCH) in long term evolution (LTE)	ATIS.3GPP.36.213V1070-2013
10-2014-7014421	Republic of Korea	Pending	Structure of enhanced physical downlink control channel (e-PDCCH) in long term evolution (LTE)	ATIS.3GPP.36.213V1070-2013
13/666,582	United States	Pending	Resource management for enhanced PDCCH	ATIS.3GPP.36.213V1070-2013
BR1120140097569	Brazil	Pending	Resource management for enhanced PDCCH	ATIS.3GPP.36.213V1070-2013
201280058227.0	China P.R.	Pending	Resource management for enhanced PDCCH	ATIS.3GPP.36.213V1070-2013
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2514/CHENP/2014	India	Pending	Resource management for enhanced PDCCH	ATIS.3GPP.36.213V1070-2013
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10-2014-7014257	Republic of Korea	Pending	Resource management for enhanced PDCCH	ATIS.3GPP.36.213V1070-2013
13/666,670	United States	Pending	Search space design for e-PDCCH in wireless communication networks	ATIS.3GPP.36.213V1070-2013
BR112014009868.9	Brazil	Pending	Search space design for e-PDCCH in wireless communication networks	ATIS.3GPP.36.213V1070-2013
201280052323.4	China P.R.	Pending	Search space design for e-PDCCH in wireless communication networks	ATIS.3GPP.36.213V1070-2013
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3141/CHENP/2014	India	Pending	Search space design for e-PDCCH in wireless communication networks	ATIS.3GPP.36.213V1070-2013
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13/666,818	United States	Pending	Method and apparatus for managing retransmission resources	ATIS.3GPP.36.213V1070-2013
BR1120140107785	Brazil	Pending	Method and apparatus for managing retransmission resources	ATIS.3GPP.36.213V1070-2013
201280065553.4	China P.R.	Pending	Method and apparatus for managing retransmission resources	ATIS.3GPP.36.213V1070-2013
12787617.5	European Patent Convention	Pending	Method and apparatus for managing retransmission resources	ATIS.3GPP.36.213V1070-2013
3326/CHENP/2014	India	Pending	Method and apparatus for managing retransmission resources	ATIS.3GPP.36.213V1070-2013
2014-540155	Japan	Pending	Method and apparatus for managing retransmission resources	ATIS.3GPP.36.213V1070-2013
10-2014-7015108	Republic of Korea	Pending	Method and apparatus for managing retransmission resources	ATIS.3GPP.36.213V1070-2013

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201280067204.6	China P.R.	Pending	Signaling of supported carrier bandwidths for carrier aggregation	ATIS.3GPP.36.331V1090-2013
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10-2014-7017703	Republic of Korea	Pending	Signaling of supported carrier bandwidths for carrier aggregation	ATIS.3GPP.36.331V1090-2013
101145133	Taiwan	Pending	Signaling of supported carrier bandwidths for carrier aggregation	ATIS.3GPP.36.331V1090-2013
13/723,089	United States	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.211V1070-2013
BR1120140160023	Brazil	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.211V1070-2013
201280069464.7	China P.R.	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.211V1070-2013
12813701.5	European Patent Convention	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.211V1070-2013
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2014-550412	Japan	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.211V1070-2013
2014-7020775	Republic of Korea	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.211V1070-2013
101150968	Taiwan	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.211V1070-2013
13/723,089	United States	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.213V1070-2013
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101150968	Taiwan	Pending	Processing enhanced PDCCH (ePDCCH) in LTE	ATIS.3GPP.36.213V1070-2013
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201280062885.7	China P.R.	Pending	Improved reference signals design for time tracking in LTE-A	ATIS.3GPP.36.213V1070-2013
12812778.4	European Patent Convention	Pending	Improved reference signals design for time tracking in LTE-A	ATIS.3GPP.36.213V1070-2013
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201280012803.8	China P.R.	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013
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6437/CHENP/2013	India	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.213V1070-2013
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12703211.8	European Patent Convention	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
6437/CHENP/2013	India	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
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10-2013-7024045	Republic of Korea	Pending	Method and apparatus for enabling channel and interference estimations in macro/RRH system	ATIS.3GPP.36.331V1090-2013
13/346,540	United States	Pending	Phase difference signaling in MIMO mode uplink	ATIS.3GPP.36.331V1090-2013
13/741,367	United States	Pending	Method and system for transitions of broadcast dash service receptions between unicast and broadcast	ATIS.3GPP.26.346V1140-2014
BR1120140173575	Brazil	Pending	Method and system for transitions of broadcast dash service receptions between unicast and broadcast	ATIS.3GPP.26.346V1140-2014
UNKNOWN	China P.R.	Pending	Method and system for transitions of broadcast dash service receptions between unicast and broadcast	ATIS.3GPP.26.346V1140-2014
13704642.1	European Patent Convention	Pending	Method and system for transitions of broadcast dash service receptions between unicast and broadcast	ATIS.3GPP.26.346V1140-2014
4460/CHENP/2014	India	Pending	Method and system for transitions of broadcast dash service receptions between unicast and broadcast	ATIS.3GPP.26.346V1140-2014
2014-552386	Japan	Pending	Method and system for transitions of broadcast dash service receptions between unicast and broadcast	ATIS.3GPP.26.346V1140-2014
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BR1120140175098	Brazil	Pending	Maximum power reduction for interference control in adjacent channels	ATIS.3GPP.36.101V10100-2013
20180005539.X	China P.R.	Pending	Maximum power reduction for interference control in adjacent channels	ATIS.3GPP.36.101V10100-2013
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5003/CHENP/2014	India	Pending	Maximum power reduction for interference control in adjacent channels	ATIS.3GPP.36.101V10100-2013
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10-2014-7022836	Republic of Korea	Pending	Maximum power reduction for interference control in adjacent channels	ATIS.3GPP.36.101V10100-2013

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201380006774.9	China P.R.	Pending	Method and apparatus to solve physical layer issues related to multiple timing advance group support	ATIS.3GPP.36.213V1070-2013
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10-2014-7023707	Republic of Korea	Pending	Method and apparatus to solve physical layer issues related to multiple timing advance group support	ATIS.3GPP.36.213V1070-2013
13/753,213	United States	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.331V1090-2013
201380006951.3	China P.R.	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.331V1090-2013
13703293.4	European Patent Convention	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.331V1090-2013
1392/MUMNP/2014	India	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.331V1090-2013
UNKNOWN	Japan	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.331V1090-2013
10-2014-7023555	Republic of Korea	Pending	Flexible radio resource management (RRM) measurements for wireless networks	ATIS.3GPP.36.331V1090-2013
13/734,822	United States	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
BR1120140184305	Brazil	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
2863430	Canada	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
201380006785.7	China P.R.	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
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P-00201405028	Indonesia	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
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1-2014-501707	Philippines	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
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1401004330	Thailand	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
201409444	Ukraine	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
2014/05410	South Africa	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.060V1150-2014
13/734,822	United States	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.401V1150-2014
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1-2014-501707	Philippines	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.401V1150-2014
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1401004330	Thailand	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.401V1150-2014
201409444	Ukraine	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.401V1150-2014
2014/05410	South Africa	Pending	Systems and methods for priority based session and mobility management	ATIS.3GPP.23.401V1150-2014
8,842,542	United States	Granted	Method and apparatus for scheduling resources for uplink MIMO communication	T1.3GPP.25.212V3110-2003
201380008217.0	China P.R.	Pending	Method and apparatus for scheduling resources for uplink MIMO communication	T1.3GPP.25.212V3110-2003
13706817.7	European Patent Convention	Pending	Method and apparatus for scheduling resources for uplink MIMO communication	T1.3GPP.25.212V3110-2003
5073/CHENP/2014	India	Pending	Method and apparatus for scheduling resources for uplink MIMO communication	T1.3GPP.25.212V3110-2003
UNKNOWN	Japan	Pending	Method and apparatus for scheduling resources for uplink MIMO communication	T1.3GPP.25.212V3110-2003
10-2014-7025000	Republic of Korea	Pending	Method and apparatus for scheduling resources for uplink MIMO communication	T1.3GPP.25.212V3110-2003
13/759,410	United States	Pending	Resource allocation for enhanced physical downlink control channel (EPDCCH)	ATIS.3GPP.36.213V1070-2013
201380008103.6	China P.R.	Pending	Resource allocation for enhanced physical downlink control channel (EPDCCH)	ATIS.3GPP.36.213V1070-2013
13705667.7	European Patent Convention	Pending	Resource allocation for enhanced physical downlink control channel (EPDCCH)	ATIS.3GPP.36.213V1070-2013
5157/CHENP/2014	India	Pending	Resource allocation for enhanced physical downlink control channel (EPDCCH)	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Japan	Pending	Resource allocation for enhanced physical downlink control channel (EPDCCH)	ATIS.3GPP.36.213V1070-2013
10-2014-7024183	Republic of Korea	Pending	Resource allocation for enhanced physical downlink control channel (EPDCCH)	ATIS.3GPP.36.213V1070-2013
13/794,757	United States	Pending	Signaling of virtual cell identifiers and fallback operation	ATIS.3GPP.36.211V1070-2013
201380012872.3	China P.R.	Pending	Signaling of virtual cell identifiers and fallback operation	ATIS.3GPP.36.211V1070-2013
13712450.9	European Patent Convention	Pending	Signaling of virtual cell identifiers and fallback operation	ATIS.3GPP.36.211V1070-2013
1606/MUMNP/2014	India	Pending	Signaling of virtual cell identifiers and fallback operation	ATIS.3GPP.36.211V1070-2013
UNKNOWN	Japan	Pending	Signaling of virtual cell identifiers and fallback operation	ATIS.3GPP.36.211V1070-2013
10-2014-7028242	Republic of Korea	Pending	Signaling of virtual cell identifiers and fallback operation	ATIS.3GPP.36.211V1070-2013
10-2014-7030584	Republic of Korea	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.23.401V1150-2014
PCT/CN2012/073458	Patent Cooperation Treaty	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.23.401V1150-2014
PCT/CN2013/072637	Patent Cooperation Treaty	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.23.401V1150-2014
10-2014-7030584	Republic of Korea	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.24.008V1160-2014
PCT/CN2012/073458	Patent Cooperation Treaty	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.24.008V1160-2014

PCT/CN2013/072637	Patent Cooperation Treaty	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.24.008V1160-2014
10-2014-7030584	Republic of Korea	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.24.301V1160-2014
PCT/CN2012/073458	Patent Cooperation Treaty	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.24.301V1160-2014
PCT/CN2013/072637	Patent Cooperation Treaty	Pending	Connected mode mobility between radio access networks	ATIS.3GPP.24.301V1160-2014
13/773,489	United States	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.26.346V1140-2014
201380016767.7	China P.R.	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.26.346V1140-2014
13710158.0	European Patent Convention	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.26.346V1140-2014
1766/MUMNP/2014	India	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.26.346V1140-2014
UNKNOWN	Japan	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.26.346V1140-2014
10-2014-7030111	Republic of Korea	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.26.346V1140-2014
13/773,489	United States	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.304V1060-2013
201380016767.7	China P.R.	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.304V1060-2013
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1766/MUMNP/2014	India	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.304V1060-2013
UNKNOWN	Japan	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.304V1060-2013
10-2014-7030111	Republic of Korea	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.304V1060-2013
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201380016767.7	China P.R.	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.331V1090-2013
13710158.0	European Patent Convention	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.331V1090-2013
1766/MUMNP/2014	India	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.331V1090-2013
UNKNOWN	Japan	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.331V1090-2013
10-2014-7030111	Republic of Korea	Pending	eMBMS service activation and maintenance procedure in multi-frequency networks	ATIS.3GPP.36.331V1090-2013

13/787,070	United States	Pending	Method and apparatus for aligning downlink discontinuous reception patterns in multiflow HSDPA	T1.3GPP.25.214V3120-2004
201380014863.8	China P.R.	Pending	Method and apparatus for aligning downlink discontinuous reception patterns in multiflow HSDPA	T1.3GPP.25.214V3120-2004
13714115.6	European Patent Convention	Pending	Method and apparatus for aligning downlink discontinuous reception patterns in multiflow HSDPA	T1.3GPP.25.214V3120-2004
6601/CHENP/2014	India	Pending	Method and apparatus for aligning downlink discontinuous reception patterns in multiflow HSDPA	T1.3GPP.25.214V3120-2004
13/791,879	United States	Pending	Secure reception reporting	ATIS.3GPP.26.346V1140-2014
201380018997.7	China P.R.	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.26.346V1140-2014
14/557,273	United States	Pending	Secure reception reporting	ATIS.3GPP.26.346V1140-2014
13712047.3	European Patent Convention	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.26.346V1140-2014
6550/CHENP/2014	India	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.26.346V1140-2014
UNKNOWN	Japan	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.26.346V1140-2014
PCT/US2013/030277	Patent Cooperation Treaty	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.26.346V1140-2014
13/791,879	United States	Pending	Secure reception reporting	ATIS.3GPP.33.246V1110-2014
201380018997.7	China P.R.	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.33.246V1110-2014
14/557,273	United States	Pending	Secure reception reporting	ATIS.3GPP.33.246V1110-2014
13712047.3	European Patent Convention	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.33.246V1110-2014
6550/CHENP/2014	India	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.33.246V1110-2014
UNKNOWN	Japan	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.33.246V1110-2014
PCT/US2013/030277	Patent Cooperation Treaty	Pending	Method and device for secure MBMS reception reporting	ATIS.3GPP.33.246V1110-2014
201380018151.3	China P.R.	Pending	Method and apparatus for LTE radio access network sharing	ATIS.3GPP.36.331V1090-2013
13772935.6	European Patent Convention	Pending	Method and apparatus for LTE radio access network sharing	ATIS.3GPP.36.331V1090-2013
1845/MUMNP/2014	India	Pending	Method and apparatus for LTE radio access network sharing	ATIS.3GPP.36.331V1090-2013
UNKNOWN	Japan	Pending	Method and apparatus for LTE radio access network sharing	ATIS.3GPP.36.331V1090-2013
2014-7030922	Republic of Korea	Pending	Method and apparatus for LTE radio access network sharing	ATIS.3GPP.36.331V1090-2013
PCT/CN2012/073526	Patent Cooperation Treaty	Pending	Method and apparatus for LTE radio access network sharing	ATIS.3GPP.36.331V1090-2013
PCT/CN2013/073765	Patent Cooperation Treaty	Pending	Method and apparatus for LTE radio access network sharing	ATIS.3GPP.36.331V1090-2013
PCT/CN2012/080622	Patent Cooperation Treaty	Pending	A method to enable LTE RAN sharing between multiple HRPD operators	ATIS.3GPP.36.331V1090-2013
13/794,624	United States	Pending	Channel state information dependent ACK/NAK bundling	ATIS.3GPP.36.213V1070-2013
201380016769.6	China P.R.	Pending	Channel state information dependent ACK/NAK bundling	ATIS.3GPP.36.213V1070-2013
13714073.7	European Patent Convention	Pending	Channel state information dependent ACK/NAK bundling	ATIS.3GPP.36.213V1070-2013
1872/MUMNP/2014	India	Pending	Channel state information dependent ACK/NAK bundling	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Japan	Pending	Channel state information dependent ACK/NAK bundling	ATIS.3GPP.36.213V1070-2013
13/802,441	United States	Pending	H-ARQ timing determination under cross-carrier scheduling in LTE	ATIS.3GPP.36.213V1070-2013
UNKNOWN	China P.R.	Pending	H-ARQ timing determination under cross-carrier scheduling in LTE	ATIS.3GPP.36.213V1070-2013
13714108.1	European Patent Convention	Pending	H-ARQ timing determination under cross-carrier scheduling in LTE	ATIS.3GPP.36.213V1070-2013
6662/CHENP/2014	India	Pending	H-ARQ timing determination under cross-carrier scheduling in LTE	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Japan	Pending	H-ARQ timing determination under cross-carrier scheduling in LTE	ATIS.3GPP.36.213V1070-2013

2014-7029833	Republic of Korea	Pending	H-ARQ timing determination under cross-carrier scheduling in LTE	ATIS.3GPP.36.213V1070-2013
13/830,821	United States	Pending	Channel state information reference signal (CSI-RS) configuration and CSI reporting restrictions	ATIS.3GPP.36.213V1070-2013
201380016773.2	China P.R.	Pending	Channel state information reference signal (CSI-RS) configuration and CSI reporting restrictions	ATIS.3GPP.36.213V1070-2013
13714134.7	European Patent Convention	Pending	Channel state information reference signal (CSI-RS) configuration and CSI reporting restrictions	ATIS.3GPP.36.213V1070-2013
6331/CHENP/2014	India	Pending	Channel state information reference signal (CSI-RS) configuration and CSI reporting restrictions	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Japan	Pending	Channel state information reference signal (CSI-RS) configuration and CSI reporting restrictions	ATIS.3GPP.36.213V1070-2013
10-2014-7029969	Republic of Korea	Pending	Channel state information reference signal (CSI-RS) configuration and CSI reporting restrictions	ATIS.3GPP.36.213V1070-2013
13/887,168	United States	Pending	Rank-specific feedback for improved MIMO support	ATIS.3GPP.36.213V1070-2013
UNKNOWN	China P.R.	Pending	Rank-specific feedback for improved MIMO support	ATIS.3GPP.36.213V1070-2013
13722660.1	European Patent Convention	Pending	Rank-specific feedback for improved MIMO support	ATIS.3GPP.36.213V1070-2013
7381/CHENP/2014	India	Pending	Rank-specific feedback for improved MIMO support	ATIS.3GPP.36.213V1070-2013
UNKNOWN	Japan	Pending	Rank-specific feedback for improved MIMO support	ATIS.3GPP.36.213V1070-2013
PCT/US2013/039739	Patent Cooperation Treaty	Pending	Rank-specific feedback for improved MIMO support	ATIS.3GPP.36.213V1070-2013
13/732,071	United States	Pending	Devices, methods, and apparatuses for mobile device acquisition assistance	ATIS.3GPP.36.355V1080-2013
PCT/US2013/052427	Patent Cooperation Treaty	Pending	Devices, methods, and apparatuses for mobile device acquisition assistance	ATIS.3GPP.36.355V1080-2013
13/929,630	United States	Pending	Network driven cell reselection method for UEs playing eMBMS content in unicast idle mode	ATIS.3GPP.36.304V1060-2013
PCT/US2013/048367	Patent Cooperation Treaty	Pending	Network driven cell reselection method for UEs playing eMBMS content in unicast idle mode	ATIS.3GPP.36.304V1060-2013
13/929,630	United States	Pending	Network driven cell reselection method for UEs playing eMBMS content in unicast idle mode	ATIS.3GPP.36.331V1090-2013
PCT/US2013/048367	Patent Cooperation Treaty	Pending	Network driven cell reselection method for UEs playing eMBMS content in unicast idle mode	ATIS.3GPP.36.331V1090-2013
13/951,250	United States	Pending	Methods and apparatus for coordinated multipoint (CoMP) communications	ATIS.3GPP.36.213V1070-2013
PCT/US2013/052201	Patent Cooperation Treaty	Pending	Methods and apparatus for coordinated multipoint (CoMP) communications	ATIS.3GPP.36.213V1070-2013
13/948,247	United States	Pending	Methods and apparatus for processing control and/or shared channels in long term evolution (LTE)	ATIS.3GPP.36.213V1070-2013
PCT/US2013/051800	Patent Cooperation Treaty	Pending	Method and apparatus for processing control and shared channels in an LTE system	ATIS.3GPP.36.213V1070-2013
13/912,413	United States	Pending	Apparatus and methods for improving performance in multi-flow communication	T1.3GPP.25.214V3120-2004

PCT/US2013/053507	Patent Cooperation Treaty	Pending	Apparatus and methods for configuring CQI and HARQ feedback in multi-flow communication	T1.3GPP.25.214V3120-2004
13/802,178	United States	Pending	Multiple timing advance groups (TAGs) for UL carrier aggregation (CA)	ATIS.3GPP.36.306V1090-2013
PCT/US2013/055470	Patent Cooperation Treaty	Pending	Multiple timing advance groups (TAGS)for UL carrier aggregation (CA)	ATIS.3GPP.36.306V1090-2013
13/802,330	United States	Pending	Reference signals for an enhanced physical downlink control channel	ATIS.3GPP.36.211V1070-2013
PCT/US2013/060742	Patent Cooperation Treaty	Pending	Reference signals for an enhanced physical downlink control channel	ATIS.3GPP.36.211V1070-2013
13/965,047	United States	Pending	Managing cross-carrier scheduling in carrier aggregation with EPDCCH in LTE	ATIS.3GPP.36.213V1070-2013
PCT/US2013/067297	Patent Cooperation Treaty	Pending	Managing cross-carrier scheduling in carrier aggregation with EPDCCH in LTE	ATIS.3GPP.36.213V1070-2013
13/965,047	United States	Pending	Managing cross-carrier scheduling in carrier aggregation with EPDCCH in LTE	ATIS.3GPP.36.331V1090-2013
PCT/US2013/067297	Patent Cooperation Treaty	Pending	Managing cross-carrier scheduling in carrier aggregation with EPDCCH in LTE	ATIS.3GPP.36.331V1090-2013
14/021,980	United States	Pending	EPDCCH resource and quasi-co-location management in LTE	ATIS.3GPP.36.213V1070-2013
PCT/US2013/059079	Patent Cooperation Treaty	Pending	EPDCCH resource and quasi-co-location management in LTE	ATIS.3GPP.36.213V1070-2013
14/146,536	United States	Pending	Live timing for dynamic adaptive streaming over HTTP (DASH)	ATIS.3GPP.26.247V1120-2014
PCT/US2014/010187	Patent Cooperation Treaty	Pending	Live timing for dynamic adaptive streaming over HTTP (DASH)	ATIS.3GPP.26.247V1120-2014
6,356,528	United States	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
774761	Australia	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
PI0009766-7	Brazil	Pending	Apparatus for transmission/receiving an information signal	ATIS.3GPP.36.211V1070-2013
7,158,498	United States	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
2369959	Canada	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
ZL00806144.0	China P.R.	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1169790	Germany	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1855392	Germany	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1169790	European Patent Convention	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1855392	European Patent Convention	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
10180165.2	European Patent Convention	Pending	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013

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EP1169790	Finland	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
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EP1855392	France	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1169790	Great Britain	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1855392	Great Britain	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
1042997	Hong Kong	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
08104076.1	Hong Kong	Pending	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
ID0016081	Indonesia	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
145694	Israel	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
182059	Israel	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
211948	India	Granted	An apparatus for transmitting an information signal	ATIS.3GPP.36.211V1070-2013
226966	India	Granted	An apparatus for transmitting and receiving an information signal	ATIS.3GPP.36.211V1070-2013
EP1169790	Italy	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1855392	Italy	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
4574866	Japan	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
796539	Republic of Korea	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
793654	Republic of Korea	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
MX232159	Mexico	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1169790	Netherlands	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1855392	Netherlands	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013

325476	Norway	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
RU2252484	Russian Federation	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
EP1169790	Sweden	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
84001	Singapore	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
UA66408	Ukraine	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.211V1070-2013
6,356,528	United States	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
774761	Australia	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
PI0009766-7	Brazil	Pending	Apparatus for transmission/receiving an information signal	ATIS.3GPP.36.212V1070-2013
7,158,498	United States	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
2369959	Canada	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
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EP1169790	Germany	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
EP1855392	Germany	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
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EP1855392	Spain	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
EP1169790	Finland	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
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EP1169790	Great Britain	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013

EP1855392	Great Britain	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
1042997	Hong Kong	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
08104076.1	Hong Kong	Pending	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
ID0016081	Indonesia	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
145694	Israel	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
182059	Israel	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
211948	India	Granted	An apparatus for transmitting an information signal	ATIS.3GPP.36.212V1070-2013
226966	India	Granted	An apparatus for transmitting and receiving an information signal	ATIS.3GPP.36.212V1070-2013
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EP1855392	Italy	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
4574866	Japan	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
796539	Republic of Korea	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
793654	Republic of Korea	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
MX232159	Mexico	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
EP1169790	Netherlands	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
EP1855392	Netherlands	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
325476	Norway	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
RU2252484	Russian Federation	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
EP1169790	Sweden	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
84001	Singapore	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
UA66408	Ukraine	Granted	Interleaver and deinterleaver for use in a diversity transmission communication system	ATIS.3GPP.36.212V1070-2013
6,925,067	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	ATIS.3GPP.36.211V1070-2013

EP1173962	Austria	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
774658	Australia	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
2004216621	Australia	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
2008202904	Australia	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	Belgium	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
PI0009923-6	Brazil	Pending	Multi-Carrier Base and Mobile Station, as well as Method of Transmitting and Receiving Data Components of Forward Link Data in a Communication Medium	ATIS.3GPP.36.211V1070-2013
7,486,653	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	ATIS.3GPP.36.211V1070-2013
7,447,189	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	ATIS.3GPP.36.211V1070-2013
7,508,790	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	ATIS.3GPP.36.211V1070-2013
8,095,142	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	ATIS.3GPP.36.211V1070-2013
2371081	Canada	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	Switzerland	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
ZL00806609.4	China P.R.	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
ZL200310124489.5	China P.R.	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
HK1067830	Hong Kong	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
EP1173962	Germany	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	Denmark	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	European Patent Convention	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
10160798.4	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
10160799.2	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
10160800.8	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
10160801.6	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013

990343EP	Spain	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	Finland	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	France	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	Great Britain	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
EP1173962	Greece	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
1043457	Hong Kong	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
ID0014734	Indonesia	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
EP1173962	Ireland	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
219787	India	Granted	Method and Apparatus for Transmitting and Receiving the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
EP1173962	Italy	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
4499299	Japan	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
863915	Republic of Korea	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
880129	Republic of Korea	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
236210	Mexico	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
EP1173962	Netherlands	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
20015145	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
20130920	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
20130910	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
20130922	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
20130923	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013

EP1173962	Portugal	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
NI-164704	Taiwan	Granted	Configuration of overhead channels in a mixed bandwidth system	ATIS.3GPP.36.211V1070-2013
2249922	Russian Federation	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
EP1173962	Sweden	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	ATIS.3GPP.36.211V1070-2013
84173	Singapore	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
UA70358	Ukraine	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	ATIS.3GPP.36.211V1070-2013
6,925,067	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	T1.3GPP.25.214V3120-2004
EP1173962	Austria	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
774658	Australia	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
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EP1173962	Belgium	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
PI0009923-6	Brazil	Pending	Multi-Carrier Base and Mobile Station, as well as Method of Transmitting and Receiving Data Components of Forward Link Data in a Communication Medium	T1.3GPP.25.214V3120-2004
7,486,653	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	T1.3GPP.25.214V3120-2004
7,447,189	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	T1.3GPP.25.214V3120-2004
7,508,790	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	T1.3GPP.25.214V3120-2004
8,095,142	United States	Granted	Configuration of overhead channels in a mixed bandwidth system	T1.3GPP.25.214V3120-2004
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EP1173962	Switzerland	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
ZL00806609.4	China P.R.	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
ZL200310124489.5	China P.R.	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
HK1067830	Hong Kong	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
EP1173962	Germany	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004

EP1173962	Denmark	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP1173962	European Patent Convention	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
10160798.4	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
10160799.2	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
10160800.8	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
10160801.6	European Patent Convention	Pending	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
990343EP	Spain	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP1173962	Finland	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP1173962	France	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP1173962	Great Britain	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
EP1173962	Greece	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
1043457	Hong Kong	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
ID0014734	Indonesia	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
EP1173962	Ireland	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
219787	India	Granted	Method and Apparatus for Transmitting and Receiving the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
EP1173962	Italy	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
4499299	Japan	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
863915	Republic of Korea	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
880129	Republic of Korea	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
236210	Mexico	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004

EP1173962	Netherlands	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
20015145	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
20130920	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
20130910	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
20130922	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
20130923	Norway	Pending	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
EP1173962	Portugal	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
NI-164704	Taiwan	Granted	Configuration of overhead channels in a mixed bandwidth system	T1.3GPP.25.214V3120-2004
2249922	Russian Federation	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
EP1173962	Sweden	Granted	Method and apparatus for transmitting the sync channel message in a multi-carrier communication system	T1.3GPP.25.214V3120-2004
84173	Singapore	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
UA70358	Ukraine	Granted	Method and Apparatus for Transmitting the Sync Channel Message in a Multi-Carrier Communication System	T1.3GPP.25.214V3120-2004
6,397,070	United States	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
PI0012559-8	Brazil	Pending	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
ZL00813043.4	China P.R.	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
EP1198901	Germany	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
EP1198901	European Patent Convention	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
EP1198901	Great Britain	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
1047827	Hong Kong	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
4668491	Japan	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
639470	Republic of Korea	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013

NI-154849	Taiwan	Granted	Method and apparatus for estimating reverse link loading in a wireless communication system	ATIS.3GPP.36.420V1020-2013
6,778,507	United States	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Austria	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Belgium	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
PI0013670-0	Brazil	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Switzerland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL00812245.8	China P.R.	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200310116477.8	China P.R.	Granted	Apparatus for receiving a wireless signal	ATIS.3GPP.36.211V1070-2013
HK1068739	Hong Kong	Granted	Apparatus for receiving a wireless signal	ATIS.3GPP.36.211V1070-2013
ZL200310116478.2	China P.R.	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1068740	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
ZL200310116479.7	China P.R.	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1068741	Hong Kong	Granted	A wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1208658	Germany	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Germany	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Denmark	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1208658	European Patent Convention	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	European Patent Convention	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
10011744.9	European Patent Convention	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Spain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Finland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1208658	France	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013

EP1816759	France	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1208658	Great Britain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Great Britain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Greece	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
1049239	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
HK1109519	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Ireland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Italy	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5405422	Japan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-142155	Japan	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
5456727	Japan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
2013-233557	Japan	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
839397	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
851792	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
910957	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Netherlands	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Norway	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Poland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Portugal	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
NI-154654	Taiwan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013

EP1816759	Romania	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
EP1816759	Sweden	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.211V1070-2013
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ZL200310116478.2	China P.R.	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
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EP1208658	Great Britain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Great Britain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Greece	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
1049239	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
HK1109519	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Ireland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Italy	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5405422	Japan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2013-142155	Japan	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
5456727	Japan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2013-233557	Japan	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
839397	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
851792	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
910957	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Netherlands	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Norway	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Poland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Portugal	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013

NI-154654	Taiwan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Romania	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1816759	Sweden	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.212V1070-2013
6,778,507	United States	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Austria	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Belgium	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
PI0013670-0	Brazil	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Switzerland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL00812245.8	China P.R.	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200310116477.8	China P.R.	Granted	Apparatus for receiving a wireless signal	ATIS.3GPP.36.213V1070-2013
HK1068739	Hong Kong	Granted	Apparatus for receiving a wireless signal	ATIS.3GPP.36.213V1070-2013
ZL200310116478.2	China P.R.	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1068740	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
ZL200310116479.7	China P.R.	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1068741	Hong Kong	Granted	A wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1208658	Germany	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Germany	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Denmark	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1208658	European Patent Convention	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	European Patent Convention	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
10011744.9	European Patent Convention	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Spain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013

EP1816759	Finland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1208658	France	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	France	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1208658	Great Britain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Great Britain	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Greece	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
1049239	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
HK1109519	Hong Kong	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Ireland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Italy	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5405422	Japan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-142155	Japan	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
5456727	Japan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
2013-233557	Japan	Pending	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
839397	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
851792	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
910957	Republic of Korea	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Netherlands	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Norway	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Poland	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013

EP1816759	Portugal	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
NI-154654	Taiwan	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Romania	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
EP1816759	Sweden	Granted	Method and apparatus for beamforming in a wireless communication system	ATIS.3GPP.36.213V1070-2013
7,054,284	United States	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Austria	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
775029	Australia	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Belgium	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
PI0011848-6	Brazil	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2374199	Canada	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Switzerland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
ZL00809366.0	China P.R.	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
ZL200410035122.0	China P.R.	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2312462	Russian Federation	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2428799	Russian Federation	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1192741	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2088699	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Germany	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Denmark	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013

EP1192741	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
HK1075980	Hong Kong	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2088699	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
10101594.6	Hong Kong	Pending	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	European Patent Convention	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
HK1140587	Hong Kong	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	Spain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2088699	Spain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Spain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1192741	Finland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	Finland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Finland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1192741	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2088699	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	France	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1192741	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2088699	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013

EP2146450	Great Britain	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Greece	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1045225	Hong Kong	Granted	Method and wireless apparatus for supervising a channel	ATIS.3GPP.36.331V1090-2013
HK1068745	Hong Kong	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
W-00200200158	Indonesia	Pending	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Ireland	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
182531	Israel	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
202113	India	Granted	A method and apparatus for supervising a channel	ATIS.3GPP.36.331V1090-2013
1192741	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2088699	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Italy	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
4773009	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
5149407	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
5149408	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
5149409	Japan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
671294	Republic of Korea	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
235673	Mexico	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	Netherlands	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Netherlands	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
325926	Norway	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013

EP2146450	Portugal	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
NI-162652	Taiwan	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
2263403	Russian Federation	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
1192741	Sweden	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1513275	Sweden	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
EP2146450	Sweden	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
85408	Singapore	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
UA66928	Ukraine	Granted	Method and apparatus for supervising a potentially gated signal in a wireless communication system	ATIS.3GPP.36.331V1090-2013
6,556,549	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.211V3120-2003
EP1192749	Austria	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
1192749	Belgium	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Belgium	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
PI0011966-0	Brazil	Pending	Method for Determining the Reverse Link Transmission Rate	T1.3GPP.25.211V3120-2003
6,804,210	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.211V3120-2003
2377060	Canada	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
1192749	Switzerland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
ZL00809986.3	China P.R.	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
200710300536.5	China P.R.	Pending	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
08108364.3	Hong Kong	Pending	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
1192749	Cyprus	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
6,807,161	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.211V3120-2003

6,680,926	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.211V3120-2003
1192749	Germany	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Germany	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
1192749	Denmark	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1192749	European Patent Convention	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	European Patent Convention	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
09004254.0	European Patent Convention	Pending	Method and apparatus for controlling transmission energy in a wireless communication system	T1.3GPP.25.211V3120-2003
09112206.6	Hong Kong	Pending	Method and apparatus for controlling transmission energy in a wireless communication system	T1.3GPP.25.211V3120-2003
1192749	Spain	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Spain	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
1192749	Finland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Finland	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
1192749	France	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	France	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
1192749	Great Britain	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Great Britain	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
1192749	Greece	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
HK1109821	Hong Kong	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
ID0012462	Indonesia	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
1192749	Ireland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003

EP1791286	Ireland	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
147019	Israel	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
189208	Israel	Pending	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
202105	India	Granted	A method, a remote and a base station for determining a reverse link rate in a communication system	T1.3GPP.25.211V3120-2003
1192749	Italy	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Italy	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
4685302	Japan	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
4886065	Japan	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
753376	Republic of Korea	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
1192749	Luxembourg	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
223592	Mexico	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
1192749	Netherlands	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Netherlands	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
333454	Norway	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
1192749	Portugal	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
I226163	Taiwan	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.211V3120-2003
2262212	Russian Federation	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
1192749	Sweden	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003
EP1791286	Sweden	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.211V3120-2003
85557	Singapore	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.211V3120-2003

73737	Ukraine	Granted	Method for Determining a Reverse Link Rate in a Wireless Communication System, Apparatus for Realization Thereon, Remote Station (Variants) and Base Station (Variants)	T1.3GPP.25.211V3120-2003
6,556,549	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.212V3110-2003
EP1192749	Austria	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
1192749	Belgium	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Belgium	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
PI0011966-0	Brazil	Pending	Method for Determining the Reverse Link Transmission Rate	T1.3GPP.25.212V3110-2003
6,804,210	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.212V3110-2003
2377060	Canada	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
1192749	Switzerland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
ZL00809986.3	China P.R.	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
200710300536.5	China P.R.	Pending	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
08108364.3	Hong Kong	Pending	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
1192749	Cyprus	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
6,807,161	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.212V3110-2003
6,680,926	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.212V3110-2003
1192749	Germany	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Germany	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
1192749	Denmark	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1192749	European Patent Convention	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	European Patent Convention	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003

09004254.0	European Patent Convention	Pending	Method and apparatus for controlling transmission energy in a wireless communication system	T1.3GPP.25.212V3110-2003
09112206.6	Hong Kong	Pending	Method and apparatus for controlling transmission energy in a wireless communication system	T1.3GPP.25.212V3110-2003
1192749	Spain	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Spain	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
1192749	Finland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Finland	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
1192749	France	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	France	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
1192749	Great Britain	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Great Britain	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
1192749	Greece	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
HK1109821	Hong Kong	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
ID0012462	Indonesia	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
1192749	Ireland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Ireland	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
147019	Israel	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
189208	Israel	Pending	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
202105	India	Granted	A method, a remote and a base station for determining a reverse link rate in a communication system	T1.3GPP.25.212V3110-2003
1192749	Italy	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Italy	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003

4685302	Japan	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
4886065	Japan	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
753376	Republic of Korea	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
1192749	Luxembourg	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
223592	Mexico	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
1192749	Netherlands	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Netherlands	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
333454	Norway	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
1192749	Portugal	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
I226163	Taiwan	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.212V3110-2003
2262212	Russian Federation	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
1192749	Sweden	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
EP1791286	Sweden	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.212V3110-2003
85557	Singapore	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.212V3110-2003
73737	Ukraine	Granted	Method for Determining a Reverse Link Rate in a Wireless Communication System, Apparatus for Realization Thereon, Remote Station (Variants) and Base Station (Variants)	T1.3GPP.25.212V3110-2003
6,556,549	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.214V3120-2004
EP1192749	Austria	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
1192749	Belgium	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Belgium	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
PI0011966-0	Brazil	Pending	Method for Determining the Reverse Link Transmission Rate	T1.3GPP.25.214V3120-2004

6,804,210	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.214V3120-2004
2377060	Canada	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
1192749	Switzerland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
ZL00809986.3	China P.R.	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
200710300536.5	China P.R.	Pending	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
08108364.3	Hong Kong	Pending	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
1192749	Cyprus	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
6,807,161	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.214V3120-2004
6,680,926	United States	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.214V3120-2004
1192749	Germany	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Germany	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
1192749	Denmark	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1192749	European Patent Convention	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	European Patent Convention	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
09004254.0	European Patent Convention	Pending	Method and apparatus for controlling transmission energy in a wireless communication system	T1.3GPP.25.214V3120-2004
09112206.6	Hong Kong	Pending	Method and apparatus for controlling transmission energy in a wireless communication system	T1.3GPP.25.214V3120-2004
1192749	Spain	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Spain	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
1192749	Finland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Finland	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004

1192749	France	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	France	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
1192749	Great Britain	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Great Britain	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
1192749	Greece	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
HK1109821	Hong Kong	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
ID0012462	Indonesia	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
1192749	Ireland	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Ireland	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
147019	Israel	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
189208	Israel	Pending	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
202105	India	Granted	A method, a remote and a base station for determining a reverse link rate in a communication system	T1.3GPP.25.214V3120-2004
1192749	Italy	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Italy	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
4685302	Japan	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
4886065	Japan	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
753376	Republic of Korea	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
1192749	Luxembourg	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
223592	Mexico	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
1192749	Netherlands	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004

EP1791286	Netherlands	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
333454	Norway	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
1192749	Portugal	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
I226163	Taiwan	Granted	Method and apparatus for signal combining in a high data rate communication system	T1.3GPP.25.214V3120-2004
2262212	Russian Federation	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
1192749	Sweden	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
EP1791286	Sweden	Granted	Method and apparatus for determining a reverse link transmission rate in a wireless communication system	T1.3GPP.25.214V3120-2004
85557	Singapore	Granted	Method and Apparatus for Determining a Reverse Link Transmission Rate in a Wireless Communication System	T1.3GPP.25.214V3120-2004
73737	Ukraine	Granted	Method for Determining a Reverse Link Rate in a Wireless Communication System, Apparatus for Realization Thereon, Remote Station (Variants) and Base Station (Variants)	T1.3GPP.25.214V3120-2004
6,366,561	United States	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Austria	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
778435	Australia	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Belgium	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
PI0015249-8	Brazil	Pending	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Switzerland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
ZL00818172.1	China P.R.	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
200610003724.7	China P.R.	Pending	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
7,272,138	United States	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP1226735	Germany	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Germany	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Denmark	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP1226735	European Patent Convention	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	European Patent Convention	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Spain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Finland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP1226735	France	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	France	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP1226735	Great Britain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Great Britain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Greece	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
1052607	Hong Kong	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013

06112173.8	Hong Kong	Pending	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Ireland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Italy	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
4638109	Japan	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
4819962	Japan	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
10-0860280	Republic of Korea	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
10-0899365	Republic of Korea	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Netherlands	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Portugal	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
EP2009946	Sweden	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.331V1090-2013
6,366,561	United States	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Austria	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
778435	Australia	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Belgium	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
PI0015249-8	Brazil	Pending	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Switzerland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
ZL00818172.1	China P.R.	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
200610003724.7	China P.R.	Pending	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
7,272,138	United States	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP1226735	Germany	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Germany	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Denmark	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP1226735	European Patent Convention	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	European Patent Convention	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Spain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Finland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP1226735	France	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	France	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP1226735	Great Britain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Great Britain	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Greece	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
1052607	Hong Kong	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
06112173.8	Hong Kong	Pending	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Ireland	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Italy	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
4638109	Japan	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
4819962	Japan	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
10-0860280	Republic of Korea	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
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EP2009946	Netherlands	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
EP2009946	Portugal	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013

EP2009946	Sweden	Granted	Method and apparatus for providing mobility within a network	ATIS.3GPP.36.423V1050-2013
6,625,198	United States	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
779097	Australia	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
PI0013207-1	Brazil	Pending	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
7,184,459	United States	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
7,466,741	United States	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
2380411	Canada	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
ZL00811787.X	China P.R.	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
1203504	Germany	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
EP1203504	European Patent Convention	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
1203504	Finland	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
1203504	France	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
1203504	Great Britain	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
1046804	Hong Kong	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
ID0014412	Indonesia	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
147719	Israel	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
208678	India	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
1203504	Italy	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
4307772	Japan	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
4515472	Japan	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
4690441	Japan	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014

731561	Republic of Korea	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
873591	Republic of Korea	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
223375	Mexico	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
20020700	Norway	Pending	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
20092641	Norway	Pending	Method and apparatus providing support of alternate upper call control layers in 3GPP2	ATIS.3GPP.23.060V1150-2014
NI-166867	Taiwan	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
2304844	Russian Federation	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
2461126	Russian Federation	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
1203504	Sweden	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
86187	Singapore	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
74790	Ukraine	Granted	Method and apparatus for concurrently processing multiple calls in a spread spectrum communications system	ATIS.3GPP.23.060V1150-2014
6,563,810	United States	Granted	Closed loop resource allocation	T1.3GPP.25.211V3120-2003
EP2107841	Austria	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	Belgium	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
PI0014397-9	Brazil	Pending	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
7,339,894	United States	Granted	Closed Loop Resource Allocation	T1.3GPP.25.211V3120-2003
7,680,052	United States	Granted	Closed loop resource allocation	T1.3GPP.25.211V3120-2003
EP2107841	Switzerland	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
ZL00813540.1	China P.R.	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
1216595	Germany	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
EP1796423	Germany	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	Germany	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003

EP2107841	Denmark	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP1216595	European Patent Convention	Granted	Closed Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
EP1796423	European Patent Convention	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	European Patent Convention	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
HK1137888	Hong Kong	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
1216595	Spain	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
EP1796423	Spain	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	Spain	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
1216595	Finland	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
EP1796423	Finland	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	Finland	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
1216595	France	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
EP1796423	France	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	France	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
1216595	Great Britain	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
EP1796423	Great Britain	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	Great Britain	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	Greece	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
1047850	Hong Kong	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
1109826	Hong Kong	Granted	Closed Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003

1216595	Ireland	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
EP1796423	Ireland	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
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EP2107841	Italy	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
4991067	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
5038479	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
5242828	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
752085	Republic of Korea	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
1216595	Netherlands	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.211V3120-2003
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EP2107841	Portugal	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
NI-153836	Taiwan	Granted	Closed-Loop Resource Allocation	T1.3GPP.25.211V3120-2003
EP2107841	Romania	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
EP2107841	Sweden	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.211V3120-2003
6,563,810	United States	Granted	Closed loop resource allocation	T1.3GPP.25.212V3110-2003
EP2107841	Austria	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
EP2107841	Belgium	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
PI0014397-9	Brazil	Pending	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.212V3110-2003
7,339,894	United States	Granted	Closed Loop Resource Allocation	T1.3GPP.25.212V3110-2003

7,680,052	United States	Granted	Closed loop resource allocation	T1.3GPP.25.212V3110-2003
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ZL00813540.1	China P.R.	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.212V3110-2003
1216595	Germany	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.212V3110-2003
EP1796423	Germany	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
EP2107841	Germany	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
EP2107841	Denmark	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
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EP2107841	Greece	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
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EP2107841	Portugal	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
NI-153836	Taiwan	Granted	Closed-Loop Resource Allocation	T1.3GPP.25.212V3110-2003
EP2107841	Romania	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003

EP2107841	Sweden	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.212V3110-2003
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EP2107841	Belgium	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
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EP2107841	Greece	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
1047850	Hong Kong	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
1109826	Hong Kong	Granted	Closed Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.214V3120-2004
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EP2107841	Ireland	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
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4991067	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
5038479	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
5242828	Japan	Granted	Closed-loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
752085	Republic of Korea	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.214V3120-2004

1216595	Netherlands	Granted	Closed-Loop Resource Allocation in a High Speed Wireless Communications Network	T1.3GPP.25.214V3120-2004
EP1796423	Netherlands	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
EP2107841	Netherlands	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
EP2107841	Portugal	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
NI-153836	Taiwan	Granted	Closed-Loop Resource Allocation	T1.3GPP.25.214V3120-2004
EP2107841	Romania	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
EP2107841	Sweden	Granted	Closed loop resource allocation in a high speed wireless communications network	T1.3GPP.25.214V3120-2004
6,980,658	United States	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
13295/01	Australia	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
PI0014396-0	Brazil	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
ZL00813578.9	China P.R.	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
8,787,578	United States	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	Germany	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
EP1216535	European Patent Convention	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
07119005.2	European Patent Convention	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	Spain	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	Finland	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	France	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	Great Britain	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
04100928.3	Hong Kong	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
08107215.6	Hong Kong	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014

ID0022309	Indonesia	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
148363	Israel	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
186696	Israel	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
219795	India	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	Italy	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
2011-061061	Japan	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
2011-194915	Japan	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
10-0915745	Republic of Korea	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
241194	Mexico	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	Netherlands	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
20021504	Norway	Pending	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
2273102	Russian Federation	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
1216535	Sweden	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
88121	Singapore	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
76407	Ukraine	Granted	Method and apparatus for encrypting transmissions in a communication system	ATIS.3GPP.33.401V1160-2014
5,640,414	United States	Granted	Mobile Station Assisted Soft Handoff in a CDMA Cellular Communications System	ATIS.3GPP.36.331V1090-2013
42.101	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
48.583	Chile	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
42.101	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
48.583	Chile	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
AR000423	Argentina	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
694612	Australia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
000456	Azerbaijan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Belgium	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014

000456	Belarus	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
2210657	Canada	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
40.874	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
3711048	Japan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Germany	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	European Patent Convention	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
000456	Eurasian Patent Convention	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
96903544.3	European Patent Convention	Pending	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Spain	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
120571	Finland	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	France	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Great Britain	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
ID0009161	Indonesia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Ireland	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
229978	India	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
116790	Israel	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Italy	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
3323509	Japan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
000456	Kyrgyzstan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
338406	Republic of Korea	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
000456	Kazakhstan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
194649	Mexico	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Netherlands	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
302029	New Zealand	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
ZL96192583.3	China P.R.	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
NI-085103	Taiwan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
000456	Russian Federation	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
96/0181	South Africa	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
EP1499051	Sweden	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.24.008V1160-2014
50056	Singapore	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
000456	Tajikistan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
000456	Turkmenistan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
46751	Ukraine	Granted	Method and Apparatus for the Formatting of Data for Different Data Transmission Rates in a Communication System	ATIS.3GPP.24.008V1160-2014
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.24.008V1160-2014
AR000423	Argentina	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
694612	Australia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
000456	Azerbaijan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Belgium	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014

000456	Belarus	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
2210657	Canada	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
40.874	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
3711048	Japan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Germany	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	European Patent Convention	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
000456	Eurasian Patent Convention	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
96903544.3	European Patent Convention	Pending	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Spain	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
120571	Finland	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	France	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Great Britain	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
ID0009161	Indonesia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Ireland	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
229978	India	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
116790	Israel	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Italy	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
3323509	Japan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
000456	Kyrgyzstan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
338406	Republic of Korea	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
000456	Kazakhstan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
194649	Mexico	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Netherlands	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
302029	New Zealand	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
ZL96192583.3	China P.R.	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
NI-085103	Taiwan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
000456	Russian Federation	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
96/0181	South Africa	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
EP1499051	Sweden	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.090V1100-2014
50056	Singapore	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
000456	Tajikistan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
000456	Turkmenistan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
46751	Ukraine	Granted	Method and Apparatus for the Formatting of Data for Different Data Transmission Rates in a Communication System	ATIS.3GPP.26.090V1100-2014
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.090V1100-2014
AR000423	Argentina	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
694612	Australia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
000456	Azerbaijan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Belgium	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
PI9606833-7	Brazil	Pending	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014

000456	Belarus	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
2210657	Canada	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
40.874	Chile	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
3711048	Japan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Germany	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	European Patent Convention	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
000456	Eurasian Patent Convention	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
96903544.3	European Patent Convention	Pending	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Spain	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
120571	Finland	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	France	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Great Britain	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
ID0009161	Indonesia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Ireland	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
229978	India	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
116790	Israel	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Italy	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
3323509	Japan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
000456	Kyrgyzstan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
338406	Republic of Korea	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
000456	Kazakhstan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
MY-113574-A	Malaysia	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
194649	Mexico	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Netherlands	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
302029	New Zealand	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
ZL96192583.3	China P.R.	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
NI-085103	Taiwan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
000456	Russian Federation	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
96/0181	South Africa	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
EP1499051	Sweden	Granted	Method and apparatus for the formatting of data for transmission	ATIS.3GPP.26.190V1100-2014
50056	Singapore	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
000456	Tajikistan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
000456	Turkmenistan	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
46751	Ukraine	Granted	Method and Apparatus for the Formatting of Data for Different Data Transmission Rates in a Communication System	ATIS.3GPP.26.190V1100-2014
2033	Vietnam	Granted	Method and Apparatus for the Formatting of Data for Transmission	ATIS.3GPP.26.190V1100-2014
20011509	Finland	Pending	Variable rate vocoder	ATIS.3GPP.26.090V1100-2014
20011508	Finland	Pending	Variable rate vocoder	ATIS.3GPP.26.090V1100-2014
20061122	Finland	Pending	Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
2001-343016	Japan	Pending	Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
20011509	Finland	Pending	Variable rate vocoder	ATIS.3GPP.26.190V1100-2014

20011508	Finland	Pending	Variable rate vocoder	ATIS.3GPP.26.190V1100-2014
20061122	Finland	Pending	Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
2001-343016	Japan	Pending	Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
7,734,260	United States	Granted	Apparatus and method for reducing message collision between mobile stations simultaneously accessing a base station in a CDMA cellular communications system	ATIS.3GPP.36.321V1080-2013
07024991.7	European Patent Convention	Pending	Apparatus and method for reducing message collision between mobile stations simultaneously accessing a base station in a CDMA cellular communications system	ATIS.3GPP.36.321V1080-2013
7,734,260	United States	Granted	Apparatus and method for reducing message collision between mobile stations simultaneously accessing a base station in a CDMA cellular communications system	ATIS.3GPP.36.331V1090-2013
07024991.7	European Patent Convention	Pending	Apparatus and method for reducing message collision between mobile stations simultaneously accessing a base station in a CDMA cellular communications system	ATIS.3GPP.36.331V1090-2013
5,742,734	United States	Granted	Encoding Rate Selection in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
EP0728350	Austria	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
711401	Australia	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Belgium	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	Belgium	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
PI9506036-7	Brazil	Pending	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
PI9510796-7	Brazil	Pending	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
PI9510780-0	Brazil	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
PI9510795-9	Brazil	Pending	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
2488921	Canada	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
2488918	Canada	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
2171009	Canada	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Switzerland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014

CL41.250	Chile	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
ZL200410001663.1	China P.R.	Granted	Method and apparatus of adding hangover frames to plurality of frames encoded by a vocoder	ATIS.3GPP.26.090V1100-2014
247926	India	Granted	A method and an apparatus for adding an hangover frames to a plurality of frames encoded by a vocoder	ATIS.3GPP.26.090V1100-2014
2003-297412	Japan	Pending	Method and System for Selecting and Determining Encoding Rate in Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
200410001664.6	China P.R.	Pending	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
3927159	Japan	Granted	Method and Device for Selecting and Determining Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
455225	Republic of Korea	Granted	Method and Apparatus for Adding Hangover Frames to a Plurality of Frames Encoded by a Vocoder	ATIS.3GPP.26.090V1100-2014
ZL200410001665.0	China P.R.	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1530201	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
EP1703493	Germany	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
EP1239465	Austria	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Switzerland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Denmark	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
EP1239465	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Greece	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014

1239465	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Portugal	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1239465	Sweden	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
EP1233408	Austria	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Switzerland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Denmark	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
EP1233408	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Greece	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Portugal	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1233408	Sweden	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Denmark	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014

EP1530201	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
EP1703493	European Patent Convention	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
EP0728350	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1530201	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	Spain	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
117993	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
122272	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
123708	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
122273	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
119085	Finland	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
0728350	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1530201	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	France	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1530201	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	Great Britain	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Greece	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1015185	Hong Kong	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1077911	Hong Kong	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014

ID0012347	Indonesia	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1530201	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	Ireland	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
192681	India	Granted	An Apparatus for Determining an Encoding Rate for an Input Signal in a Variable Rate Vocoder title changed Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
114874	Israel	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1530201	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	Italy	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
3502101	Japan	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
4680956	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
4680957	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
4680958	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
4870846	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
455826	Republic of Korea	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Liechtenstein	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Luxembourg	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
MY-113084-A	Malaysia	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014

0728350	Monaco	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
190444	Mexico	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1530201	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	Netherlands	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
ZL95190717.4	China P.R.	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Portugal	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
NI-078214	Taiwan	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
95/6081	South Africa	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
0728350	Sweden	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
1703493	Sweden	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.090V1100-2014
32650	Singapore	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
822	Vietnam	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.090V1100-2014
5,742,734	United States	Granted	Encoding Rate Selection in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
EP0728350	Austria	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
711401	Australia	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Belgium	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	Belgium	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
PI9506036-7	Brazil	Pending	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
PI9510796-7	Brazil	Pending	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
PI9510780-0	Brazil	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014

PI9510795-9	Brazil	Pending	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
2488921	Canada	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
2488918	Canada	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
2171009	Canada	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Switzerland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
CL41.250	Chile	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
ZL200410001663.1	China P.R.	Granted	Method and apparatus of adding hangover frames to plurality of frames encoded by a vocoder	ATIS.3GPP.26.190V1100-2014
247926	India	Granted	A method and an apparatus for adding an hangover frames to a plurality of frames encoded by a vocoder	ATIS.3GPP.26.190V1100-2014
2003-297412	Japan	Pending	Method and System for Selecting and Determining Encoding Rate in Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
200410001664.6	China P.R.	Pending	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
3927159	Japan	Granted	Method and Device for Selecting and Determining Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
455225	Republic of Korea	Granted	Method and Apparatus for Adding Hangover Frames to a Plurality of Frames Encoded by a Vocoder	ATIS.3GPP.26.190V1100-2014
ZL200410001665.0	China P.R.	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1530201	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
EP1703493	Germany	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
EP1239465	Austria	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Switzerland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Denmark	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014

EP1239465	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Greece	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Portugal	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1239465	Sweden	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
EP1233408	Austria	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Switzerland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Germany	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Denmark	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
EP1233408	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Greece	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014

1233408	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Portugal	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1233408	Sweden	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Denmark	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
EP1530201	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
EP1703493	European Patent Convention	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
EP0728350	European Patent Convention	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1530201	Spain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	Spain	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
117993	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
122272	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
123708	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
122273	Finland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
119085	Finland	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
0728350	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1530201	France	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	France	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014

1530201	Great Britain	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	Great Britain	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Greece	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1015185	Hong Kong	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1077911	Hong Kong	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
ID0012347	Indonesia	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1530201	Ireland	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	Ireland	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
192681	India	Granted	An Apparatus for Determining an Encoding Rate for an Input Signal in a Variable Rate Vocoder title changed Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
114874	Israel	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1530201	Italy	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	Italy	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
3502101	Japan	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
4680956	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
4680957	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
4680958	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014

4870846	Japan	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
455826	Republic of Korea	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Liechtenstein	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Luxembourg	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
MY-113084-A	Malaysia	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Monaco	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
190444	Mexico	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1530201	Netherlands	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	Netherlands	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
ZL95190717.4	China P.R.	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Portugal	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
NI-078214	Taiwan	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
95/6081	South Africa	Granted	Improved Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
0728350	Sweden	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
1703493	Sweden	Granted	Method and apparatus for selecting an encoding rate in a variable rate vocoder	ATIS.3GPP.26.190V1100-2014
32650	Singapore	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
822	Vietnam	Granted	Method and Apparatus for Selecting an Encoding Rate in a Variable Rate Vocoder	ATIS.3GPP.26.190V1100-2014
6,381,230	United States	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
2338769	Canada	Granted	Method and system for providing personal base station communications	ATIS.3GPP.36.300V1090-2013

1099357	Germany	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
EP1099357	European Patent Convention	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1099357	Spain	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1099357	Finland	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1099357	France	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1099357	Great Britain	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1037447	Hong Kong	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1099357	Ireland	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1099357	Italy	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
4318860	Japan	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
666882	Republic of Korea	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
222925	Mexico	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
ZL99809200.2	China P.R.	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
1099357	Sweden	Granted	Method and System for Providing Personal Base Station Communications	ATIS.3GPP.36.300V1090-2013
6,678,311	United States	Granted	High Data Rate CDMA Wireless Communication System Using Variable Sized Channel Codes	ATIS.3GPP.36.212V1070-2013
6,621,875	United States	Granted	High Data Rate CDMA Wireless Communication System Using Variable Speed Channel Codes	ATIS.3GPP.36.212V1070-2013
AR014907	Argentina	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP0981914	Austria	Granted	Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
746537	Australia	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
0981914	Belgium	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013

EP1596519	Belgium	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI9809814-4	Brazil	Pending	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI9816358-2	Brazil	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
PI9816359-0	Brazil	Pending	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2748611	Canada	Pending	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
2289231	Canada	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
2463381	Canada	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Switzerland	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
CL49.016	Chile	Granted	A subscriber unit and method for use in the CDMA wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Cyprus	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
298696	Czech Republic	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
PV 2005-662	Czech Republic	Pending	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
158350	Israel	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Germany	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Germany	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
2313176	Russian Federation	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
0981914	Denmark	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
09178211.0	European Patent Convention	Pending	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10108545.1	Hong Kong	Pending	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
10182862.2	European Patent Convention	Pending	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013

11107616.6	Hong Kong	Pending	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
EP0981914	European Patent Convention	Granted	Subscriber unit with plural control and data sources for CDMA wireless communication system	ATIS.3GPP.36.212V1070-2013
EP1596519	European Patent Convention	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Spain	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Spain	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Finland	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Finland	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
122314	Finland	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
123070	Finland	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
0981914	France	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	France	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Great Britain	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Great Britain	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Greece	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
HK1026786	Hong Kong	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
HK1088730	Hong Kong	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
HK1084785	Hong Kong	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
0981914	Ireland	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Ireland	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
132456	Israel	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013

0981914	Italy	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Italy	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
4132088	Japan	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
455822	Republic of Korea	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
0981914	Luxembourg	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
0981914	Monaco	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
239698	Mexico	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
254660	Mexico	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
267119	Mexico	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
0981914	Netherlands	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Netherlands	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013
330611	Norway	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
334852	Norway	Granted	Subscriber unit with plural control and data sources for CDMA wireless communication system	ATIS.3GPP.36.212V1070-2013
324198	Norway	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
500443	New Zealand	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
ZL98805015.3	China P.R.	Granted	Subscriber Unit With Plural Control and Data Sources for CDMA Wireless Communication System	ATIS.3GPP.36.212V1070-2013
ZL200510097613.2	China P.R.	Granted	Encoding Method and Encoding Apparatus	ATIS.3GPP.36.212V1070-2013
0981914	Portugal	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
2242086	Russian Federation	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
0981914	Sweden	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
EP1596519	Sweden	Granted	A subscriber unit and method for use in a wireless communication system	ATIS.3GPP.36.212V1070-2013

68503	Singapore	Granted	A Subscriber Unit and Method for Use in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
3411	Vietnam	Granted	Method and Apparatus for Transmitting and Receiving in a Wireless Communication System	ATIS.3GPP.36.212V1070-2013
6,034,635	United States	Granted	Method for Using Only Two Base Stations for Determining the Position of a Mobile Subscriber in a CDMA Cellular Telephone System	ATIS.3GPP.36.355V1080-2013
5,933,781	United States	Granted	Pilot Based, Reversed Channel Power Control	T1.3GPP.25.211V3120-2003
001633	Armenia	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP0956661	Austria	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
733270	Australia	Granted	Pilot Based, Reversed Channel Power Control	T1.3GPP.25.211V3120-2003
001633	Azerbaijan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Belgium	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Belgium	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
PI9807533-0	Brazil	Pending	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
001633	Belarus	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
2278927	Canada	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Switzerland	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
ZL200710089680.9	China P.R.	Granted	Method and apparatus for pilot based transmit power control	T1.3GPP.25.211V3120-2003
0956661	Germany	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Germany	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
0956661	Denmark	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	European Patent Convention	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
08155999.9	European Patent Convention	Pending	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
001633	Eurasian Patent Convention	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP0956661	European Patent Convention	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Spain	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Spain	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
0956661	Finland	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Finland	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
0956661	France	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	France	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
0956661	Great Britain	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Great Britain	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
0956661	Greece	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
1023864	Hong Kong	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
HK1106631	Hong Kong	Granted	Method and apparatus for pilot based transmit power control	T1.3GPP.25.211V3120-2003
09100555.8	Hong Kong	Pending	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
ID0008302	Indonesia	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Ireland	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Ireland	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003

207796	India	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
131089	Israel	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Italy	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Italy	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
1998-532936	Japan	Pending	Pilot based transmit power control	T1.3GPP.25.211V3120-2003
4542162	Japan	Granted	Pilot based transmit power control	T1.3GPP.25.211V3120-2003
2007-086498	Japan	Pending	Pilot based transmit power control	T1.3GPP.25.211V3120-2003
2011-280374	Japan	Pending	Pilot based transmit power control	T1.3GPP.25.211V3120-2003
5389984	Japan	Granted	Pilot based transmit power control	T1.3GPP.25.211V3120-2003
001633	Kyrgyzstan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
632158	Republic of Korea	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
001633	Kazakhstan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Liechtenstein	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Luxembourg	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
MY-133000-A	Malaysia	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Monaco	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
001633	Moldova	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Netherlands	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Netherlands	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
ZL98802218.4	China P.R.	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
0956661	Portugal	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Romania	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
NI-127058	Taiwan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
001633	Russian Federation	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
98/0382	South Africa	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
0956661	Sweden	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
EP1786117	Sweden	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.211V3120-2003
001633	Tajikistan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
001633	Turkmenistan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.211V3120-2003
5,933,781	United States	Granted	Pilot Based, Reversed Channel Power Control	T1.3GPP.25.214V3120-2004
001633	Armenia	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP0956661	Austria	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
733270	Australia	Granted	Pilot Based, Reversed Channel Power Control	T1.3GPP.25.214V3120-2004
001633	Azerbaijan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Belgium	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Belgium	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
PI9807533-0	Brazil	Pending	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
001633	Belarus	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
2278927	Canada	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Switzerland	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
ZL200710089680.9	China P.R.	Granted	Method and apparatus for pilot based transmit power control	T1.3GPP.25.214V3120-2004

0956661	Germany	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Germany	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
0956661	Denmark	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	European Patent Convention	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
08155999.9	European Patent Convention	Pending	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
001633	Eurasian Patent Convention	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP0956661	European Patent Convention	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Spain	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Spain	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
0956661	Finland	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Finland	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
0956661	France	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	France	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
0956661	Great Britain	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Great Britain	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
0956661	Greece	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
1023864	Hong Kong	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
HK1106631	Hong Kong	Granted	Method and apparatus for pilot based transmit power control	T1.3GPP.25.214V3120-2004
09100555.8	Hong Kong	Pending	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
ID0008302	Indonesia	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Ireland	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Ireland	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
207796	India	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
131089	Israel	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Italy	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Italy	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
1998-532936	Japan	Pending	Pilot based transmit power control	T1.3GPP.25.214V3120-2004
4542162	Japan	Granted	Pilot based transmit power control	T1.3GPP.25.214V3120-2004
2007-086498	Japan	Pending	Pilot based transmit power control	T1.3GPP.25.214V3120-2004
2011-280374	Japan	Pending	Pilot based transmit power control	T1.3GPP.25.214V3120-2004
5389984	Japan	Granted	Pilot based transmit power control	T1.3GPP.25.214V3120-2004
001633	Kyrgyzstan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
632158	Republic of Korea	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
001633	Kazakhstan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Liechtenstein	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Luxembourg	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
MY-133000-A	Malaysia	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Monaco	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
001633	Moldova	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Netherlands	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Netherlands	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004

ZL98802218.4	China P.R.	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
0956661	Portugal	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Romania	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
NI-127058	Taiwan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
001633	Russian Federation	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
98/0382	South Africa	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
0956661	Sweden	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
EP1786117	Sweden	Granted	Method and system for pilot based transmit power control	T1.3GPP.25.214V3120-2004
001633	Tajikistan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
001633	Turkmenistan	Granted	Pilot Based Transmit Power Control	T1.3GPP.25.214V3120-2004
5,940,761	United States	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Armenia	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
742513	Australia	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Azerbaijan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
PI9714321-9	Brazil	Pending	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Belarus	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
6,304,755	United States	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
6,810,254	United States	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
2277772	Canada	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013
2896-1997	Chile	Pending	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
156764	Israel	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013
0956679	Germany	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Eurasian Patent Convention	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
EP0956679	European Patent Convention	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
0956679	Spain	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013

0956679	Finland	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
0956679	France	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
0956679	Great Britain	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
HK1023894	Hong Kong	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
W-990694	Indonesia	Pending	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
0956679	Ireland	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
198051	Israel	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013
205567	Israel	Pending	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013
211846	India	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
130734	Israel	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
0956679	Italy	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
4234209	Japan	Granted	Method and apparatus for performing mobile assisted hard handoff between communication sSystems	ATIS.3GPP.36.331V1090-2013
001724	Kyrgyzstan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
560982	Republic of Korea	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Kazakhstan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Moldova	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
207502	Mexico	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
0956679	Netherlands	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
336486	New Zealand	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013
ZL97181396.5	China P.R.	Granted	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013

200910160529.9	China P.R.	Pending	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013
10106354.5	Hong Kong	Pending	Method and apparatus for performing mobile assisted hard handoff between communication systems	ATIS.3GPP.36.331V1090-2013
NI-104937	Taiwan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Russian Federation	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
98/0082	South Africa	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
0956679	Sweden	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
66513	Singapore	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Tajikistan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
001724	Turkmenistan	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
UA45478	Ukraine	Granted	Method and Apparatus for Performing Mobile Assisted Hard Handoff Between Communication Systems	ATIS.3GPP.36.331V1090-2013
6,011,978	United States	Granted	Automatic System Switching in a Multiple-Mode Wireless Communication Device	ATIS.3GPP.36.331V1090-2013
753224	Australia	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
PI9808209-4	Brazil	Granted	A Wireless Communication Device and Method for Automatically Switching	ATIS.3GPP.36.331V1090-2013
2283279	Canada	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
0965235	Germany	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
EP0965235	European Patent Convention	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
0965235	Spain	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
0965235	Finland	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
0965235	France	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
0965235	Great Britain	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
1025866	Hong Kong	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
131766	Israel	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
0965235	Italy	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
4790879	Japan	Granted	A wireless communication device and method	ATIS.3GPP.36.331V1090-2013
4865762	Japan	Granted	A wireless communication device and method	ATIS.3GPP.36.331V1090-2013
2010-275594	Japan	Pending	A wireless communication device and method	ATIS.3GPP.36.331V1090-2013
499984	Republic of Korea	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
208921	Mexico	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
318271	Norway	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013

ZL98804013.1	China P.R.	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
2195788	Russian Federation	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
0965235	Sweden	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
67728	Singapore	Granted	A Wireless Communication Device and Method	ATIS.3GPP.36.331V1090-2013
6,832,094	United States	Granted	Dual Event Slotted Paging	ATIS.3GPP.36.300V1090-2013
8,224,356	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
8,046,005	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
7,983,695	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
7,970,420	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
7,555,302	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
8,068,859	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
6,832,094	United States	Granted	Dual Event Slotted Paging	ATIS.3GPP.36.321V1080-2013
8,224,356	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
8,046,005	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
7,983,695	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
7,970,420	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
7,555,302	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
8,068,859	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
6,832,094	United States	Granted	Dual Event Slotted Paging	ATIS.3GPP.36.331V1090-2013
8,224,356	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
8,046,005	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
7,983,695	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
7,970,420	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
7,555,302	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
8,068,859	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
6,393,295	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
AR044968	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
AR015842	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
EP0985325	Austria	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Austria	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Austria	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Austria	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013

EP2134131	Austria	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
759956	Australia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
0985325	Belgium	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Belgium	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Belgium	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Belgium	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
PI9816178-4	Brazil	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
PI9809888-8	Brazil	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
PI9816362-0	Brazil	Granted	Dual Channel Slotted Paging	ATIS.3GPP.36.300V1090-2013
2669182	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
2291744	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
0985325	Switzerland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Switzerland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Switzerland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Switzerland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013

EP2134131	Switzerland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
CL42580	Chile	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
1715-2004	Chile	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
ZL200410047451.7	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
ZL200610100385.4	China P.R.	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
0985325	Cyprus	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Cyprus	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
PV2004-736	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
PV20007-577	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
PV2007-578	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
PV2007-579	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
PV2007-580	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
298748	Czech Republic	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
2474682	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
2316144	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
2689956	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
2689959	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
0985325	Germany	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013

EP1811803	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Germany	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Germany	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Germany	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
0985325	Denmark	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Denmark	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Denmark	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Denmark	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Denmark	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
EP1471761	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811802	European Patent Convention	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless Terminals	ATIS.3GPP.36.300V1090-2013
EP1811803	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	European Patent Convention	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	European Patent Convention	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
12100990.6	Hong Kong	Pending	Two stage paging in wireless terminals via a paging indicator in a first channel	ATIS.3GPP.36.300V1090-2013

10102619.5	Hong Kong	Pending	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	European Patent Convention	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
10105962.1	Hong Kong	Pending	Maximisation of standby time of CDMA wireless terminals by two stage paging with a paging indication via pich or quick paging channel (QPCH)	ATIS.3GPP.36.300V1090-2013
EP0985325	European Patent Convention	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
0985325	Spain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Spain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Spain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Spain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
0985325	Finland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
121838	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
EP1471761	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
121837	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
121841	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
121840	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013

121839	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
121842	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Finland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Finland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Finland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
121448	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
FI 124547	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
0985325	France	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	France	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	France	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	France	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013

0985325	Great Britain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Great Britain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Great Britain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Great Britain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
0985325	Greece	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Greece	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Greece	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Greece	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Greece	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
HK1030325	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
HK1071349	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
07102508.4	Hong Kong	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
229359	Hungary	Granted	Paging a wireless terminal in a telecommunications system	ATIS.3GPP.36.300V1090-2013
P1300135	Hungary	Pending	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
228602	Hungary	Granted	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013

W-00200800801	Indonesia	Pending	Dual event slotted paging	ATIS.3GPP.36.300V1090-2013
ID0020949	Indonesia	Granted	Dual channel slotted paging	ATIS.3GPP.36.300V1090-2013
0985325	Ireland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Ireland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Ireland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Ireland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
162092	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
163756	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
212416	India	Granted	A method for paging a wireless terminal	ATIS.3GPP.36.300V1090-2013
133157	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
0985325	Italy	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Italy	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013

EP2352349	Italy	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Italy	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
3983818	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
4249091	Japan	Granted	Apparatus and method for paging wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
4286315	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.300V1090-2013
4286316	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.300V1090-2013
4286317	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.300V1090-2013
4166807	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
587249	Republic of Korea	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
0985325	Liechtenstein	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Liechtenstein	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
0985325	Luxembourg	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Luxembourg	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
MY-124180-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
0985325	Monaco	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Monaco	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
213725	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
250047	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
275778	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
281016	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
275777	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013

275781	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
275780	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
306635	Mexico	Granted	A method of an apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
MY-135824-A	Malaysia	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
MY-138497-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
MY-143086-A	Malaysia	Granted	Method and apparatus for indirect paging a wireless terminal with less encoded paging indication channel	ATIS.3GPP.36.300V1090-2013
MY-148747-A	Malaysia	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless terminals	ATIS.3GPP.36.300V1090-2013
0985325	Netherlands	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
1811802	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Netherlands	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Netherlands	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Netherlands	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
501335	New Zealand	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
206000	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
P-381236	Poland	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
212120	Poland	Granted	A method for reducing standby mode power consumption when paging a wireless terminal	ATIS.3GPP.36.300V1090-2013

212122	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
212121	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
ZL98806860.5	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
0985325	Portugal	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1811803	Portugal	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Portugal	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Portugal	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Portugal	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
NI-158084	Taiwan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
2328831	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
2444859	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
2444860	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
2460237	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
2460236	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
2460238	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
2212771	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
98/4659	South Africa	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
0985325	Sweden	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.300V1090-2013
EP1471761	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013

1811802	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1811803	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP1806946	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
EP2101537	Sweden	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.300V1090-2013
EP2352349	Sweden	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.300V1090-2013
EP2134131	Sweden	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.300V1090-2013
69553	Singapore	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.300V1090-2013
85534	Ukraine	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.300V1090-2013
72442	Ukraine	Granted	Method and Device for Paging Call of a Terminal in a Radio Communications System	ATIS.3GPP.36.300V1090-2013
6,393,295	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
AR044968	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
AR015842	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
EP0985325	Austria	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Austria	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Austria	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Austria	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Austria	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
759956	Australia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
0985325	Belgium	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013

EP1471761	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Belgium	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Belgium	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Belgium	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
PI9816178-4	Brazil	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
PI9809888-8	Brazil	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
PI9816362-0	Brazil	Granted	Dual Channel Slotted Paging	ATIS.3GPP.36.321V1080-2013
2669182	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
2291744	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
0985325	Switzerland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Switzerland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Switzerland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Switzerland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Switzerland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
CL42580	Chile	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
1715-2004	Chile	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013

ZL200410047451.7	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
ZL200610100385.4	China P.R.	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
0985325	Cyprus	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Cyprus	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
PV2004-736	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
PV20007-577	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
PV2007-578	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
PV2007-579	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
PV2007-580	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
298748	Czech Republic	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
2474682	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
2316144	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
2689956	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
2689959	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
0985325	Germany	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Germany	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013

EP2352349	Germany	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Germany	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
0985325	Denmark	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Denmark	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Denmark	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Denmark	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Denmark	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
EP1471761	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811802	European Patent Convention	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless Terminals	ATIS.3GPP.36.321V1080-2013
EP1811803	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	European Patent Convention	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	European Patent Convention	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
12100990.6	Hong Kong	Pending	Two stage paging in wireless terminals via a paging indicator in a first channel	ATIS.3GPP.36.321V1080-2013
10102619.5	Hong Kong	Pending	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	European Patent Convention	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
10105962.1	Hong Kong	Pending	Maximisation of standby time of CDMA wireless terminals by two stage paging with a paging indication via pich or quick paging channel (QPCH)	ATIS.3GPP.36.321V1080-2013

EP0985325	European Patent Convention	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
0985325	Spain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Spain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Spain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Spain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
0985325	Finland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
121838	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
EP1471761	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
121837	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
121841	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
121840	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
121839	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
121842	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013

EP1806946	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Finland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Finland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Finland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
121448	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
FI 124547	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
0985325	France	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	France	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	France	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	France	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
0985325	Great Britain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013

EP1806946	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Great Britain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Great Britain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Great Britain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
0985325	Greece	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Greece	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Greece	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Greece	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Greece	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
HK1030325	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
HK1071349	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
07102508.4	Hong Kong	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
229359	Hungary	Granted	Paging a wireless terminal in a telecommunications system	ATIS.3GPP.36.321V1080-2013
P1300135	Hungary	Pending	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
228602	Hungary	Granted	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
W-00200800801	Indonesia	Pending	Dual event slotted paging	ATIS.3GPP.36.321V1080-2013
ID0020949	Indonesia	Granted	Dual channel slotted paging	ATIS.3GPP.36.321V1080-2013
0985325	Ireland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013

EP1811803	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Ireland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Ireland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Ireland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
162092	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
163756	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
212416	India	Granted	A method for paging a wireless terminal	ATIS.3GPP.36.321V1080-2013
133157	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
0985325	Italy	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Italy	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Italy	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Italy	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
3983818	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
4249091	Japan	Granted	Apparatus and method for paging wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013

4286315	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.321V1080-2013
4286316	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.321V1080-2013
4286317	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.321V1080-2013
4166807	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
587249	Republic of Korea	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
0985325	Liechtenstein	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Liechtenstein	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
0985325	Luxembourg	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Luxembourg	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
MY-124180-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
0985325	Monaco	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Monaco	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
213725	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
250047	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
275778	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
281016	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
275777	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
275781	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
275780	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
306635	Mexico	Granted	A method of an apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
MY-135824-A	Malaysia	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
MY-138497-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013

MY-143086-A	Malaysia	Granted	Method and apparatus for indirect paging a wireless terminal with less encoded paging indication channel	ATIS.3GPP.36.321V1080-2013
MY-148747-A	Malaysia	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless terminals	ATIS.3GPP.36.321V1080-2013
0985325	Netherlands	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Netherlands	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Netherlands	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Netherlands	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
501335	New Zealand	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
206000	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
P-381236	Poland	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
212120	Poland	Granted	A method for reducing standby mode power consumption when paging a wireless terminal	ATIS.3GPP.36.321V1080-2013
212122	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
212121	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
ZL98806860.5	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
0985325	Portugal	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1811803	Portugal	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013

EP2101537	Portugal	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013
EP2352349	Portugal	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Portugal	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
NI-158084	Taiwan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
2328831	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
2444859	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
2444860	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
2460237	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
2460236	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
2460238	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
2212771	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
98/4659	South Africa	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
0985325	Sweden	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.321V1080-2013
EP1471761	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
1811802	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1811803	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP1806946	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
EP2101537	Sweden	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.321V1080-2013

EP2352349	Sweden	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.321V1080-2013
EP2134131	Sweden	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.321V1080-2013
69553	Singapore	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.321V1080-2013
85534	Ukraine	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.321V1080-2013
72442	Ukraine	Granted	Method and Device for Paging Call of a Terminal in a Radio Communications System	ATIS.3GPP.36.321V1080-2013
6,393,295	United States	Granted	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
AR044968	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
AR015842	Argentina	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
EP0985325	Austria	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Austria	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Austria	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Austria	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Austria	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
759956	Australia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
0985325	Belgium	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Belgium	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013

EP2101537	Belgium	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Belgium	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Belgium	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
PI9816178-4	Brazil	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
PI9809888-8	Brazil	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
PI9816362-0	Brazil	Granted	Dual Channel Slotted Paging	ATIS.3GPP.36.331V1090-2013
2669182	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
2291744	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
0985325	Switzerland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Switzerland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Switzerland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Switzerland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Switzerland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
CL42580	Chile	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
1715-2004	Chile	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
ZL200410047451.7	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
ZL200610100385.4	China P.R.	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
0985325	Cyprus	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Cyprus	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013

PV2004-736	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
PV20007-577	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
PV2007-578	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
PV2007-579	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
PV2007-580	Czech Republic	Pending	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
298748	Czech Republic	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
2474682	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
2316144	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
2689956	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
2689959	Canada	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
0985325	Germany	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Germany	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Germany	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Germany	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Germany	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
0985325	Denmark	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013

EP1811803	Denmark	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Denmark	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Denmark	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Denmark	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
EP1471761	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811802	European Patent Convention	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless Terminals	ATIS.3GPP.36.331V1090-2013
EP1811803	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	European Patent Convention	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	European Patent Convention	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	European Patent Convention	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
12100990.6	Hong Kong	Pending	Two stage paging in wireless terminals via a paging indicator in a first channel	ATIS.3GPP.36.331V1090-2013
10102619.5	Hong Kong	Pending	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	European Patent Convention	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
10105962.1	Hong Kong	Pending	Maximisation of standby time of CDMA wireless terminals by two stage paging with a paging indication via pich or quick paging channel (QPCH)	ATIS.3GPP.36.331V1090-2013
EP0985325	European Patent Convention	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
0985325	Spain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013

1811802	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Spain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Spain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Spain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Spain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
0985325	Finland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
121838	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
EP1471761	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
121837	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
121841	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
121840	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
121839	Finland	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
121842	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Finland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013

EP2352349	Finland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Finland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
121448	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
FI 124547	Finland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
0985325	France	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	France	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	France	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	France	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	France	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
0985325	Great Britain	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Great Britain	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Great Britain	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013

EP2352349	Great Britain	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Great Britain	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
0985325	Greece	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Greece	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Greece	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Greece	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Greece	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
HK1030325	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
HK1071349	Hong Kong	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
07102508.4	Hong Kong	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
229359	Hungary	Granted	Paging a wireless terminal in a telecommunications system	ATIS.3GPP.36.331V1090-2013
P1300135	Hungary	Pending	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
228602	Hungary	Granted	Method and Device of Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
W-00200800801	Indonesia	Pending	Dual event slotted paging	ATIS.3GPP.36.331V1090-2013
ID0020949	Indonesia	Granted	Dual channel slotted paging	ATIS.3GPP.36.331V1090-2013
0985325	Ireland	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Ireland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013

EP2101537	Ireland	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Ireland	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Ireland	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
162092	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
163756	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
212416	India	Granted	A method for paging a wireless terminal	ATIS.3GPP.36.331V1090-2013
133157	Israel	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
0985325	Italy	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Italy	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Italy	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Italy	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Italy	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
3983818	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
4249091	Japan	Granted	Apparatus and method for paging wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
4286315	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.331V1090-2013
4286316	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.331V1090-2013
4286317	Japan	Granted	Dual channel slotted paging	ATIS.3GPP.36.331V1090-2013

4166807	Japan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
587249	Republic of Korea	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
0985325	Liechtenstein	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Liechtenstein	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
0985325	Luxembourg	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Luxembourg	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
MY-124180-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
0985325	Monaco	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Monaco	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
213725	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
250047	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
275778	Mexico	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
281016	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
275777	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
275781	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
275780	Mexico	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
306635	Mexico	Granted	A method of an apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
MY-135824-A	Malaysia	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
MY-138497-A	Malaysia	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
MY-143086-A	Malaysia	Granted	Method and apparatus for indirect paging a wireless terminal with less encoded paging indication channel	ATIS.3GPP.36.331V1090-2013

MY-148747-A	Malaysia	Granted	Repeated single bit paging indicator via PICH channels in WCDMA wireless terminals	ATIS.3GPP.36.331V1090-2013
0985325	Netherlands	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Netherlands	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Netherlands	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Netherlands	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Netherlands	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
501335	New Zealand	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
206000	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
P-381236	Poland	Pending	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
212120	Poland	Granted	A method for reducing standby mode power consumption when paging a wireless terminal	ATIS.3GPP.36.331V1090-2013
212122	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
212121	Poland	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
ZL98806860.5	China P.R.	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
0985325	Portugal	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1811803	Portugal	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Portugal	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013

EP2352349	Portugal	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Portugal	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013
NI-158084	Taiwan	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
2328831	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
2444859	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
2444860	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
2460237	Russian Federation	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
2460236	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
2460238	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
2212771	Russian Federation	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
98/4659	South Africa	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
0985325	Sweden	Granted	Method and Apparatus for Indirect Paging a Wireless Terminal with Less Encoded Paging Indication Channel	ATIS.3GPP.36.331V1090-2013
EP1471761	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
1811802	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1811803	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP1806946	Sweden	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
EP2101537	Sweden	Granted	Apparatus in a base station for maximisation of the standby time of CDMA wireless terminals by transmission of two stage paging via PICH or quick paging channel	ATIS.3GPP.36.331V1090-2013
EP2352349	Sweden	Granted	Apparatus for maximisation of standby time of CDMA wireless terminals by two stage paging via a PICH or quick paging channel QPCH	ATIS.3GPP.36.331V1090-2013
EP2134131	Sweden	Granted	Two stage paging of cellular terminals via a first paging indicator message	ATIS.3GPP.36.331V1090-2013

69553	Singapore	Granted	A Method of and Apparatus for Paging a Wireless Terminal in a Wireless Telecommunications System	ATIS.3GPP.36.331V1090-2013
85534	Ukraine	Granted	A method of and apparatus for paging a wireless terminal in a wireless telecommunications system	ATIS.3GPP.36.331V1090-2013
72442	Ukraine	Granted	Method and Device for Paging Call of a Terminal in a Radio Communications System	ATIS.3GPP.36.331V1090-2013
6,215,777	United States	Granted	Method and Apparatus for Transmitting and Receiving Data Multiplexed onto Multiple Code Channels, Frequencies and Base Stations	ATIS.3GPP.36.211V1070-2013
6,359,868	United States	Granted	Method and Apparatus for Transmitting and Receiving Data Multiplexed onto Multiple Code Channels, Frequencies and Base Stations	ATIS.3GPP.36.211V1070-2013
6,574,211	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
AR014006	Argentina	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
EP1029419	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
EP1434448	Austria	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
EP1777899	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
EP1777973	Austria	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
750154	Australia	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
EP1029419	Belgium	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
EP1777899	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
EP1777900	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
EP1777834	Belgium	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
PI9813885-5	Brazil	Pending	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
PI9816246-2	Brazil	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
7,079,550	United States	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
7,184,426	United States	Granted	Method and Apparatus for Burst Pilot for a Time Division Multiplex System	ATIS.3GPP.36.213V1070-2013
8,311,027	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
7,848,284	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
8,077,655	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
8,005,042	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
7,848,283	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
8,009,625	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
8,351,372	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
13/710,099	United States	Pending	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
7,848,285	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
7,499,427	United States	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
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EP1777898	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013
EP1777973	Germany	Granted	Method and apparatus for high rate packet data transmission	ATIS.3GPP.36.213V1070-2013

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UA55482	Ukraine	Granted	Method and Apparatus for High Rate Packet Data Transmission	ATIS.3GPP.36.213V1070-2013
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PV 2009 -370	Czech Republic	Pending	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.211V3120-2003
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4594442	Japan	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
4594443	Japan	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
5384691	Japan	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
2013-108605	Japan	Pending	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
2009-121773	Japan	Pending	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
636923	Republic of Korea	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
636924	Republic of Korea	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1029419	Luxembourg	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
MY-123975-A	Malaysia	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1029419	Monaco	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
221264	Mexico	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1029419	Netherlands	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1434448	Netherlands	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1777899	Netherlands	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777898	Netherlands	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777973	Netherlands	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777900	Netherlands	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777834	Netherlands	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777899	Norway	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
333651	Norway	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
20075441	Norway	Pending	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
503841	New Zealand	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
PL195276	Poland	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
WO99/23844	Portugal	Pending	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
103941	Portugal	Pending	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
ZL98810951.4	China P.R.	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1029419	Portugal	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1434448	Portugal	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1777899	Portugal	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
121884	Romania	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
A2007-00786	Romania	Pending	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
2233045	Russian Federation	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
98/10003	South Africa	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1029419	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1434448	Sweden	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
EP1777899	Sweden	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777973	Sweden	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777900	Sweden	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
EP1777834	Sweden	Granted	Method and apparatus for high rate packet data transmission	T1.3GPP.25.214V3120-2004
72266	Singapore	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004

UA55482	Ukraine	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
3351	Vietnam	Granted	Method and Apparatus for High Rate Packet Data Transmission	T1.3GPP.25.214V3120-2004
6,535,563	United States	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
759486	Australia	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
PI9910258-7	Brazil	Granted	Methods for coordinating times at which a mobile station monitors frequencies, for minimizing the amount of time, for monitoring information, for boosting an output power level, and method and apparatus for minimizing loss of data in a communication link	ATIS.3GPP.36.331V1090-2013
BR1220130002510	Brazil	Pending	Methods for coordinating times at which a mobile station monitors frequencies, for minimizing the amount of time, for monitoring information, for boosting an output power level, and method and apparatus for minimizing loss of data in a communication link	ATIS.3GPP.36.331V1090-2013
BR1220130002529	Brazil	Pending	Methods for coordinating times at which a mobile station monitors frequencies, for minimizing the amount of time, for monitoring information, for boosting an output power level, and method and apparatus for minimizing loss of data in a communication link	ATIS.3GPP.36.331V1090-2013
7,010,068	United States	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
7,664,209	United States	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
7,653,157	United States	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
2804432	Canada	Pending	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
2331799	Canada	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
2604069	Canada	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
2638956	Canada	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013

06100275.0	Hong Kong	Pending	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
2003200320	Australia	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
2006220421	Australia	Granted	Method and apparatus for performing mobile station assisted hard handoff using error correction codes	ATIS.3GPP.36.331V1090-2013
2006220435	Australia	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
2006220434	Australia	Granted	Method and apparatus for performing mobile station assisted hard handoff using error correction codes	ATIS.3GPP.36.331V1090-2013
2006220436	Australia	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
2006220437	Australia	Granted	Method for coordinating base station transmission with mobile station scanning times	ATIS.3GPP.36.331V1090-2013
2009220021	Australia	Granted	Method for coordinating base station transmission with mobile station scanning times	ATIS.3GPP.36.331V1090-2013
2003213297	Australia	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
2006202916	Australia	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
1076956	Germany	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP1509057	Germany	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
1509058	Germany	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP2291027	Germany	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
EP2291027	European Patent Convention	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013

EP1076956	European Patent Convention	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP1509057	European Patent Convention	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
EP1509058	European Patent Convention	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
07011318.8	European Patent Convention	Pending	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
20135101	Finland	Pending	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
117847	Finland	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
121294	Finland	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
123598	Finland	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
1076956	France	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP1509057	France	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
1509058	France	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP2291027	France	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
1076956	Great Britain	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013

EP1509057	Great Britain	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
1509058	Great Britain	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP2291027	Great Britain	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
1036182	Hong Kong	Granted	Method for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
HK1075997	Hong Kong	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
HK1075998	Hong Kong	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
08102588.6	Hong Kong	Pending	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
139673	Israel	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
1076956	Italy	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP1509057	Italy	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
1509058	Italy	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP2291027	Italy	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
5160703	Japan	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
2009-047936	Japan	Pending	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013

4833898	Japan	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
5102379	Japan	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
5497106	Japan	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
5044028	Japan	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
5453357	Japan	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
4991962	Japan	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
691292	Republic of Korea	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
228951	Mexico	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
333652	Norway	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
ZL99808324.0	China P.R.	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
ZL200510059098.9	China P.R.	Granted	Method and apparatus for coordinating transmission of short messages with hard handoff searches in a wireless communications system	ATIS.3GPP.36.331V1090-2013
200810212904.5	China P.R.	Pending	Method and apparatus for performing mobile station assisted hard handoff using error correction codes	ATIS.3GPP.36.331V1090-2013
09110374.6	Hong Kong	Pending	Method and apparatus for performing mobile station assisted hard handoff using error correction codes	ATIS.3GPP.36.331V1090-2013
NI-157318	Taiwan	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013

1076956	Sweden	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
EP1509057	Sweden	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
1509058	Sweden	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
77068	Singapore	Granted	Method and Apparatus for Coordinating Transmission of Short Messages with Hard Handoff Searches in a Wireless Communications System	ATIS.3GPP.36.331V1090-2013
7,027,484	United States	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
7,675,961	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
8,345,728	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
8,040,936	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
1097528	Germany	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
1213856	Germany	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
EP1097528	European Patent Convention	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
EP1213856	European Patent Convention	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
1097528	France	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
1213856	France	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
1097528	Great Britain	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
1213856	Great Britain	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
1036532	Hong Kong	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
4536923	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003

5180151	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
2011-148224	Japan	Pending	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
2014-096157	Japan	Pending	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
5313303	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
5631950	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.212V3110-2003
757715	Republic of Korea	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
ZL99808455.7	China P.R.	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.212V3110-2003
7,027,484	United States	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
7,675,961	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
8,345,728	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
8,040,936	United States	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
1097528	Germany	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
1213856	Germany	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
EP1097528	European Patent Convention	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
EP1213856	European Patent Convention	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
1097528	France	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
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1097528	Great Britain	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
1213856	Great Britain	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
1036532	Hong Kong	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004

4536923	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
5180151	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
2011-148224	Japan	Pending	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
2014-096157	Japan	Pending	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
5313303	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
5631950	Japan	Granted	Method and apparatus for transmitting and receiving high speed data using code division multiple access channels	T1.3GPP.25.214V3120-2004
757715	Republic of Korea	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
ZL99808455.7	China P.R.	Granted	Method and Apparatus for Transmitting and Receiving High Speed Data Using Code Division Multiple Access Channels	T1.3GPP.25.214V3120-2004
6,275,478	United States	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
7,286,499	United States	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
8,406,802	United States	Granted	Methods and apparatuses for fast power control of signals transmitted on a multiple access channel	ATIS.3GPP.36.212V1070-2013
1097524	Germany	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
07115709.3	European Patent Convention	Pending	Methods and apparatuses for fast power control of signals transmitted on a multiple access channel	ATIS.3GPP.36.212V1070-2013
10177359.6	European Patent Convention	Pending	Methods and apparatuses for fast power control of signals transmitted on a multiple access channel	ATIS.3GPP.36.212V1070-2013
EP1097524	European Patent Convention	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
1097524	France	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
1097524	Great Britain	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
1042600	Hong Kong	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
08100157.1	Hong Kong	Pending	Methods and apparatuses for fast power control of signals transmitted on a multiple access channel	ATIS.3GPP.36.212V1070-2013
4499285	Japan	Granted	Methods and apparatuses for fast power control of signals transmitted on a multiple access channel	ATIS.3GPP.36.212V1070-2013

4598141	Japan	Granted	Methods and apparatuses for fast power control of signals transmitted on a multiple access channel	ATIS.3GPP.36.212V1070-2013
659436	Republic of Korea	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
ZL99811491.X	China P.R.	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
NI-140054	Taiwan	Granted	Methods and Apparatuses for Fast Power Control of Signals Transmitted on a Multiple Access Channel	ATIS.3GPP.36.212V1070-2013
6,208,858	United States	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
763381	Australia	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
6,714,780	United States	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.211V3120-2003
2337992	Canada	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
EP1099315	Germany	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.211V3120-2003
EP1099315	European Patent Convention	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.211V3120-2003
EP1099315	France	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.211V3120-2003
EP1099315	Great Britain	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.211V3120-2003
1037811	Hong Kong	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
4750275	Japan	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.211V3120-2003
693621	Republic of Korea	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
ZL99810265.2	China P.R.	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
ZL200610074580.4	China P.R.	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.211V3120-2003
ZL200610077654.X	China P.R.	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
2248666	Russian Federation	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.211V3120-2003
6,208,858	United States	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.214V3120-2004

763381	Australia	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.214V3120-2004
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EP1099315	Germany	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.214V3120-2004
EP1099315	European Patent Convention	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.214V3120-2004
EP1099315	France	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.214V3120-2004
EP1099315	Great Britain	Granted	System and method for reducing call dropping rates in a multi-beam communication system	T1.3GPP.25.214V3120-2004
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2248666	Russian Federation	Granted	System and Method for Reducing Call Dropping Rates in a Multi-Beam Communication System	T1.3GPP.25.214V3120-2004
6,215,779	United States	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.401V1040-2013
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6,215,779	United States	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.423V1050-2013
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EP1131971	Germany	Granted	Distributed Infrastructure for Wireless Data Communications	ATIS.3GPP.36.423V1050-2013
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EP1380138	Germany	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.423V1050-2013
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EP1380138	Denmark	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.423V1050-2013
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EP1380138	Finland	Granted	Distributed infrastructure for wireless data communications	ATIS.3GPP.36.423V1050-2013
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6,798,736	United States	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	T1.3GPP.25.212V3110-2003
7,315,531	United States	Granted	Method and apparatus for transmitting and receiving variable rate data	T1.3GPP.25.212V3110-2003
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EP1116353	Great Britain	Granted	Method and apparatus for transmitting and receiving variable rate data	T1.3GPP.25.212V3110-2003
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780277	Republic of Korea	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	T1.3GPP.25.212V3110-2003
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6,798,736	United States	Granted	Method and Apparatus for Transmitting and Receiving Variable Rate Data	T1.3GPP.25.213V390-2004
7,315,531	United States	Granted	Method and apparatus for transmitting and receiving variable rate data	T1.3GPP.25.213V390-2004
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EP1116353	Great Britain	Granted	Method and apparatus for transmitting and receiving variable rate data	T1.3GPP.25.213V390-2004
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6,360,100	United States	Granted	Method for Robust Handoff in Wireless Communication System	ATIS.3GPP.36.331V1090-2013
764067	Australia	Granted	Method for Robust Handoff in Wireless Communication System	ATIS.3GPP.36.331V1090-2013
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4536926	Japan	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
5038461	Japan	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
5038462	Japan	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
696031	Republic of Korea	Granted	Method for Robust Handoff in Wireless Communication System	ATIS.3GPP.36.331V1090-2013
233521	Mexico	Granted	Method for Robust Handoff in Wireless Communication System	ATIS.3GPP.36.331V1090-2013
261256	Mexico	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
283071	Mexico	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
EP1765033	Netherlands	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
325668	Norway	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
2233560	Russian Federation	Granted	Method for Robust Handoff in Wireless Communication System	ATIS.3GPP.36.331V1090-2013
1116407	Sweden	Granted	Method for Robust Handoff in Wireless Communication System	ATIS.3GPP.36.331V1090-2013
EP1765033	Sweden	Granted	Method for robust handoff in wireless communication system	ATIS.3GPP.36.331V1090-2013
79583	Singapore	Granted	Method for Robust Handoff in Wireless Communication System	ATIS.3GPP.36.331V1090-2013
64012	Ukraine	Granted	Method of the Soft Handover for Completing a Data Transmission Session in a Wireless Communication System	ATIS.3GPP.36.331V1090-2013
6,148,283	United States	Granted	Method and Apparatus Using Multi-Path Multi-Stage Vector Quantizer	ATIS.3GPP.26.190V1100-2014
6,987,982	United States	Granted	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
7,613,462	United States	Granted	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
8,014,805	United States	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
6,788,937	United States	Granted	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
ZL00805396.0	China P.R.	Granted	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
EP1166584	Germany	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
EP1166584	European Patent Convention	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
06024501.6	European Patent Convention	Pending	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
EP1166584	Spain	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
EP1166584	Finland	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
EP1166584	France	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
EP1166584	Great Britain	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
1042808	Hong Kong	Granted	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
07111542.3	Hong Kong	Pending	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
EP1166584	Italy	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
4638052	Japan	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
4638405	Japan	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
4638466	Japan	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013

617916	Republic of Korea	Granted	Reservation Multiple Access	ATIS.3GPP.36.321V1080-2013
EP1166584	Netherlands	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
EP1166584	Sweden	Granted	Reservation multiple access	ATIS.3GPP.36.321V1080-2013
6,304,991	United States	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
763873	Australia	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
PI9915926-0	Brazil	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
6,637,000	United States	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
2353455	Canada	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
ZL99814039.2	China P.R.	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
2313177	Russian Federation	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
2376702	Russian Federation	Granted	Turbo decoder using linear congruential sequences	T1.3GPP.25.212V3110-2003
99962985.0	European Patent Convention	Pending	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
10009796.3	European Patent Convention	Pending	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
1045030	Hong Kong	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
ID0016423	Indonesia	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
4723089	Japan	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
5394410	Japan	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
711326	Republic of Korea	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
230012	Mexico	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
20012708	Norway	Pending	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
2235424	Russian Federation	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
81158	Singapore	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
63024	Ukraine	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003
4043	Vietnam	Granted	Turbo code interleaver using linear congruential sequences	T1.3GPP.25.212V3110-2003